

◎統計と資料

三朝温泉地の気候について (第22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1999年1月1日から1999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のあることをお断りしておく。

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Table 1. Daily Atmospheric Temperature at 9 AM (°C). (1999)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
0.6	2.3	3.6	3.8	1.0	3.3	7.8	-1.9	-1.6	1.5	2.0	2.2	0.6	1.0	1.4	2.3	1.2	1.4		
February																			
1.1	4.0	-1.4	-3.9	0.2	0.9	0.6	1.0	2.3	5.6	1.0	3.9	0.3	-1.3	-1.4	1.3	1.1	2.1		
March																			
4.1	6.1	5.0																	
April																			
15.9	16.2	7.9	8.4	8.7	13.1	5.4	4.8	10.8	12.6	10.4	11.4	12.2	15.7	10.7	10.8	16.6	14.5		
May																			
17.0	16.8	21.4	14.9	15.2	16.7	22.2	20.3	20.7	19.8	18.5	15.9	21.3	22.1	18.7	18.5	17.4	18.3		
June																			
23.1	21.9	19.3	21.2	20.8	22.9	18.9	19.7	19.9	19.9	20.8	24.3	24.2	25.1	25.7	28.3	26.6	19.3		
July																			
20.8	20.8	22.7	19.6	19.5	19.7	22.5	21.5	24.3	22.1	21.4	21.4	21.7	24.1	22.9	23.2	23.8	24.7		
August																			
28.5	28.4	29.9	29.8	26.6	28.3	29.8	30.3	29.3	26.5	28.7	26.0	27.4	25.4	24.3	24.9	24.9	26.7		
September																			
25.4	22.9	22.9	24.4	26.6	25.1	23.6	26.1	25.0	24.3	24.6	28.2	25.2	25.7	26.9	21.4	21.5	21.9		
October																			
22.0	25.7	15.9	15.3	16.9	18.0	19.4	18.5	16.1	14.2	18.2	25.4	22.4	23.4	19.6	18.2	14.5	12.2		
November																			
21.5	10.5	11.0	8.2	11.3	10.6	10.8	12.4	12.0	9.8	11.8	10.3	17.1	11.8	8.1	14.8	7.5	7.2		
December																			
															3.3	3.0	8.3		

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
0.9	3.6	3.1	1.8	1.6	-0.2	5.5	5.9	3.5	5.0	1.1	6.7	0.9	-0.1	-1.2	2.6	2.1
3.5	0.5	1.2	1.1	-0.7	1.0	3.2	2.7	4.4	2.0	6.3	1.4				2.5	1.5
									13.9	8.3	5.2	4.8	8.6			
12.9	14.2	13.9	13.3	15.1	19.9	14.7	14.6	13.0	13.4	13.3	13.3	11.2	12.2		14.1	12.6
19.2	23.9	19.1	19.4	21.1	23.5	21.7	17.7	15.9	20.8	14.4	18.1	17.7	18.7	21.6	19.2	19.0
15.3	17.2	19.4	22.5	20.8	22.8	26.0	23.4	20.9	22.4	19.6	21.1	19.6	19.9		21.7	21.7
20.9	23.7	23.2	23.0	27.5	29.1	28.9	26.4	27.7	29.2	28.3	26.3	27.0	27.2	28.6	27.8	24.1
27.5	26.4	26.2	26.0	27.0	27.3	25.9	22.5	20.5	20.4	27.3	27.9	24.6	26.5	26.6	25.1	26.6
23.2	27.4	28.6	25.0	23.5	23.5	26.1	28.2	24.1	20.1	18.4	21.0	21.8	22.1		22.9	24.2
9.6	10.4	13.6	16.9	13.9	14.3	14.9	10.4	11.5	11.8	14.1	15.3	14.2	14.0	9.9	13.1	16.1
8.5	6.6	7.9	10.0	8.2	7.7	11.0	12.5	12.1	9.1	6.3	7.3					
5.9	2.2	-0.4		-0.3	0.7	1.0	3.3	3.0	0.9	1.6	1.6	4.1	1.8			

Table 2. Daily Maximum Temperature (°C). (1999)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
4.2	6.3	6.4	8.5	13.6	15.4	7.9	1.9	2.3	4.6	7.1	3.4	2.0	5.0	9.1	7.1	7.6	7.2			
February																				
9.6	6.4	1.3	3.9	5.2	6.9	11.3	11.6	14.5	6.1	7.7	5.6	4.1	1.5	6.2	5.6	12.1	15.0			
March																				
15.0	14.4	18.0																		
April																				
21.8	17.9	11.5	17.5	16.9	15.5	9.6	13.9	18.6	15.5	15.8	11.9	20.5	18.4	14.9	20.0	22.1	22.0			
May																				
24.6	23.0	24.3	16.9	19.5	25.0	28.8	24.3	27.6	23.7	23.7	20.6	26.8	26.6	22.6	23.5	21.9	24.3			
June																				
27.8	27.5	24.3	25.5	24.7	29.6	20.9	25.5	24.6	26.1	25.6	29.5	30.2	27.9	32.2	31.3	32.7	27.3			
July																				
24.2	24.5	26.8	21.7	22.3	23.6	28.2	30.3	26.6	25.9	25.4	22.4	25.1	28.0	27.4	25.7	29.4	29.1			
August																				
30.4	33.6	34.2	34.1	32.3	34.9	33.6	35.9	35.5	31.1	33.6	30.8	31.8	31.3	28.8	28.7	29.2	30.9			
September																				
26.7	29.6	29.5	30.4	32.4	27.5	27.8	28.1	30.0	29.0	29.1	31.9	30.9	30.5	30.3	24.6	23.8	23.6			
October																				
29.6	30.8	19.3	19.9	24.6	25.4	23.5	22.9	22.6	27.4	24.6	27.8	27.6	26.3	20.2	18.4	16.1	17.2			
November																				
21.8	12.2	15.4	17.4	18.6	19.9	21.4	20.2	13.3	16.5	17.7	18.2	22.1	19.1	21.3	15.5	10.4	10.5			
December																				
																9.5	14.3	13.3		

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
13.1	6.4	10.9	7.2	5.9	12.2	12.5	10.3	11.8	10.1	12.9	7.8	4.6	6.5	10.4	9.5	8.0
4.9	2.5	4.7	6.2	3.0	8.0	10.0	8.0	9.6	10.4	9.1	9.9					
									16.1	12.7	10.9	7.8	11.5	16.6		
17.3	18.1	21.2	18.6	20.3	26.5	18.7	16.3	15.3	15.8	23.4	13.7	15.0	21.6		18.6	17.7
22.3	26.3	27.8	24.3	25.6	28.1	25.6	24.5	22.1	25.4	22.3	21.9	23.9	26.2	29.2	25.0	24.3
17.9	19.3	23.5	27.1	27.9	30.2	26.5	27.5	24.0	24.9	20.5	27.7	23.2	21.3		25.4	26.0
22.9	26.1	32.0	26.8	34.9	34.1	32.7	33.0	34.5	31.2	29.3	29.0	28.4	30.5	32.9	31.8	28.1
28.7	33.6	32.7	30.6	31.5	33.6	28.4	24.7	27.8	27.5	30.7	31.7	30.4	33.7	34.5	30.4	31.5
28.0	32.3	33.8	28.9	24.5	26.2	30.4	29.2	27.1	26.0	28.7	28.8	29.8	27.3		27.8	28.6
18.3	20.9	21.6	21.4	22.9	22.6	16.5	20.1	21.9	22.2	15.7	21.7	24.8	19.8	19.8	20.7	22.2
14.7	17.7	18.2	16.8	18.8	19.3	16.1	19.0	20.3	12.1	11.4						
8.4	5.2	3.0		4.2	3.1	6.3	9.4	6.5	2.4	8.8	12.6	12.1	12.6			

Table 3. Daily Minimum Temperature (°C). (1999)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
0.3	0.3	2.4	2.9	-0.2	0.7	-1.2	-2.6	-2.3	-2.2	-0.2	0.6	0.2	-0.2	-0.6	0.5	0.3	-1.6			
February																				
-0.9	0.8	-4.1	-5.4	-3.1	-1.5	-2.2	-1.6	-1.3	0.2	-1.9	0.9	-1.2	-2.1	-2.5	-0.4	-1.3	-1.4			
March																				
	1.4	1.0																		
April																				
3.6	5.5	3.0	1.7	4.3	4.3	2.8	0.3	1.7	11.1	3.8	10.4	7.5	9.5	3.5	0.7	5.5	5.8			
May																				
4.9	7.4	10.2	13.5	10.0	8.1	7.6	11.3	10.9	11.9	9.6	7.6	6.5	12.6	12.6	10.2	11.6	9.1			
June																				
12.0	15.9	17.4	18.9	18.5	16.2	18.3	13.1	10.3	10.4	15.1	15.5	15.0	16.3	17.9	20.7	20.2	17.5			
July																				
18.1	18.5	19.1	17.8	17.0	16.9	15.1	17.2	19.3	16.5	17.5	16.0	18.9	19.9	20.6	20.4	18.4	19.4			
August																				
25.9	26.8	27.9	24.4	23.0	23.0	22.4	25.6	23.1	23.4	24.6	23.3	21.5	22.1	23.0	23.4	22.8	22.7			
September																				
19.8	18.5	16.8	21.1	20.0	22.8	22.5	22.5	21.0	20.4	20.5	21.9	20.9	22.4	22.6	19.1	18.9	19.6			
October																				
18.8	18.4	12.5	11.8	11.2	14.0	17.0	13.7	9.8	7.8	13.5	21.5	21.0	20.1	18.0	15.7	11.5	6.7			
November																				
11.0	6.9	6.3	4.6	7.5	6.5	6.7	8.0	9.1	6.9	7.4	5.2	14.0	7.4	4.5	10.3	5.6	5.1			
December																				
																1.4	0.6	5.1		

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
-1.7	0.6	1.0	-0.1	-1.0	-1.7	2.3	2.6	0.7	-0.8	-1.9	-0.6	-1.1	-1.7	-2.8	-0.6	-0.3
2.2	-1.0	-1.3	-0.8													
									10.8	2.4	0.7	1.9	1.1	4.9		
12.1	13.1	12.1	8.0	10.0	8.8	13.0	12.7	12.5	12.4	9.7	6.5	3.5	1.1		9.0	6.9
10.9	15.5	12.4	10.9	11.9	11.3	13.0	16.5	12.5	11.6	13.5	10.1	7.1	8.6	11.3	11.6	10.7
15.1	15.8	15.9	17.0	13.1	16.5	18.3	19.8	19.0	17.0	16.9	15.0	19.0	18.9		17.3	16.5
20.0	20.7	20.5	19.5	23.5	25.1	24.2	23.3	23.7	25.8	24.4	23.8	24.6	24.5	25.7	24.4	20.6
24.4	24.5	22.0	23.0	22.8	22.6	22.8	18.7	17.0	17.8	23.9	22.7	19.5	21.5	22.6	21.0	22.9
20.6	22.6	24.2	21.3	20.6	21.4	21.8	21.7	20.1	14.5	12.7	15.1	17.1	18.0		18.3	20.0
5.6	6.3	8.1	13.4	9.2	10.3	6.9	5.1	5.7	6.8	13.8	11.0	8.8	8.9	6.9	8.5	11.7
5.7	2.8	3.8	6.4	5.3	4.5	7.8	9.3	7.9	5.0	4.0						
2.4	-1.1	-2.3		-2.9	0.1	-0.9	-1.6	0.0	0.2	-0.4	-0.6	2.4	0.3			

Table 4. Daily Amount of Precipitation (mm). (1999)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17		
January																			
8.0	6.0	3.0	7.0	0.0	0.0	1.5	3.5	1.0	7.0	37.0	15.0	11.5	9.5	3.5	7.5	9.5	0.5		
February																			
0.0	4.0	0.0	0.5	0.5	0.0	1.0	0.0	0.0	3.0	9.0	3.0	8.0	0.0	0.0	4.0	24.0	16.0		
March																			
0.0	0.0	0.0																	
April																			
0.0	5.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	22.0	28.0	2.0	0.0	3.0	0.0	0.0	0.0	0.0		
May																			
0.0	0.0	0.0	27.5	9.0	0.0	0.0	0.0	0.0	0.0	36.5	0.0	0.0	0.0	0.0	2.5	4.0	0.0		
June																			
July																			
August																			
																	14.0		
September																			
2.0	0.0	0.0	1.5	3.0	24.0	16.5	0.5	0.0	4.5	52.0	0.0	0.0	0.0	0.5	102.0	3.0	19.5		
October																			
0.0	27.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	0.0	1.5	1.0	9.5	4.0	9.5	0.0		
November																			
70.5	12.5	3.5	0.5	0.5	0.0	0.0	18.5	23.5	0.0	129.5	0.0	1.0	2.5	0.0	64.5	10.5	2.0		
December																			
															19.0	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
0.0	10.5	2.5	70.0	4.0	0.0	0.0	7.0	0.0	0.5	0.5	6.0	3.0	14.0	3.0	38.0	145.0
19.0	16.0	4.5	94.5	1.0	0.0	0.0	3.5	5.5	0.0	12.0	0.0				22.0	125.5
									0.0	0.0	0.0	0.0	0.0	0.0		
6.0	3.0	0.5	14.5	0.0	0.0	6.5	1.0	5.0	0.0	0.0	14.5	0.0	0.0		27.0	69.5
1.5	0.0	0.0	8.0	0.0	0.0	0.0	22.5	1.0	7.0	12.5	0.0	0.0				
0.0	0.0	0.0		0.0	1.5	3.0	8.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0		
0.5	0.0	7.0	132.5	37.5	16.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0		64.5	249.0
0.0	0.0	0.0	25.5	0.0	0.0	1.0	0.0	0.0	0.0	64.0	14.5	0.0	0.0	0.0	79.5	145.5
0.0	0.0	0.0	80.5	0.0	0.0	0.5	2.0	0.0	0.0	0.5						
0.5	0.0	0.5		7.0	7.0	16.5	24.5	3.0	18.0	6.5	0.0	0.0	0.0			

Table 5. Wind Direction at 9 AM. (1999)

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

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

Table 6. Wind Speed at 9 AM. (1999)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
0.0	0.4	1.1	0.3	0.9	0.4	3.4	1.8	0.3	1.8	1.3	0.0	1.1	1.1	1.1	0.4
February															
0.5	0.0	6.1	0.0	0.5	0.2	0.6	0.0	0.0	3.0	0.0	3.9	0.0	0.0	0.7	0.1
March															
2.0	1.2	0.0													
April															
1.0	1.5	1.3	0.0	0.3	1.3	0.0	0.0	0.0	1.0	0.4	1.1	7.4	6.0	0.2	1.1
May															
0.0	0.0	2.1	0.8	0.7	0.3	1.6	0.7	0.8	1.4	1.6	1.4	0.3	1.5	1.0	1.2
June															
0.0	0.0	0.6	0.0	0.7	0.1	0.0	0.2	0.5	0.1	1.7	0.3	1.1	1.9	2.9	4.3
July															
0.6	0.0	0.4	0.8	1.5	0.4	0.6	0.1	2.0	0.7	0.5	0.1	1.6	0.5	0.3	1.4
August															
1.8	1.9	3.3	3.3	0.1	0.3	1.4	2.4	0.4	1.0	0.5	1.2	0.2	1.2	0.1	0.8
September															
3.9	0.4	0.5	0.6	1.1	1.6	0.2	0.2	0.8	0.2	2.8	0.2	0.5	0.5	3.1	2.4
October															
0.5	1.9	0.6	0.0	0.1	0.3	0.1	0.0	0.1	0.0	1.4	1.0	0.4	0.0	0.0	0.2
November															
6.4	0.0	1.5	1.1	0.1	0.1	0.0	0.1	1.2	0.0	0.3	1.0	0.1	0.0	0.0	1.4
December															
														0.1	1.5

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.5	1.2	0.6	0.9	0.2	0.1	0.7	0.1	0.2	0.9	0.2	0.4	0.1	0.0	0.0
1.2	0.0	0.0	1.4	0.4	0.0	0.8	0.0	0.9	1.1	0.9	2.7			
									0.2	2.4	0.0	2.8	0.0	0.3
0.2	0.0	0.0	0.5	1.2	2.5	0.8	0.7	0.1	0.0	0.9	0.2	1.7	0.6	
2.4	1.0	1.6	2.6	1.3	1.3	0.0	1.4	1.5	0.9	0.1	0.6	0.5	0.5	0.1
0.8	0.3	0.0	0.6	0.9	0.1	1.8	0.3	0.6	0.6	0.0	0.5	1.2	0.8	
0.2	0.2	0.1	0.8	0.1	2.0	1.5	0.3	1.5	1.1	3.9	1.4	1.2	0.7	1.4
0.1	1.4	0.3	0.0	0.3	1.1	0.1	0.9	0.0	0.4	1.4	1.2	1.1	0.2	0.5
0.1	0.8	1.3	1.3	1.4	0.7	1.5	4.0	0.3	0.0	0.2	0.7	0.1	0.3	
0.2	0.2	0.1	0.2	0.4	0.0	2.2	0.4	0.3	1.3	0.4	1.1	0.0	0.3	0.0
0.5	0.7	0.0	2.0	0.7	0.1	0.4	0.0	1.6	1.6	2.6	4.1			
0.1	5.9	6.5	1.1	0.0	0.0	0.2	1.0	3.7	0.0	0.9	2.3	0.1	0.5	

Table 7. Daily Weather (1999) : ○ 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	4	18	0	4	3	0
⊚	⊚	○	⊚	●	●	⊚	⊚	⊚				2	6	11	0	5	4	0
●	⊚	⊚	○	○	⊚	⊚	●	⊚	⊚	⊚	⊚	4	4	16	1	6	0	0
⊚	⊙	○	●	⊚	●	⊚	⊚	⊚	⊙	○		4	6	13	1	6	0	0
○	○	⊙	⊕	●	⊚	⊙	●	○	⊙	○	○	11	10	5	1	4	0	0
⊚	⊙	⊚	⊚	●	●	⊚	●	⊙	●	●		1	7	11	1	10	0	0
⊚	⊚	⊚	⊚	⊚	⊚	⊚	⊚	⊚	⊚	⊚	⊙	3	1	24	0	3	0	0
⊚	⊚	⊙	⊚	●	⊙	⊙	⊙	⊙	○	⊙	⊙	2	11	16	0	2	0	0
⊚	●	⊙	⊚	●	⊚	⊙	⊙	○	○	○	⊚	3	12	11	0	4	0	0
○	○	⊙	⊚	⊙	○	⊚	●	⊙	⊙	○	⊚	7	9	11	0	4	0	0
○	○	○	⊚	⊚	⊚	⊚	⊙	⊙	●	⊚		9	3	15	0	3	0	0
⊙	*	*	⊚	⊙	⊚	*	⊙	○	⊚	⊙	○	5	8	12	0	3	3	0
計												53	81	163	4	54	10	0

Table 8. Daily Humidity (%) at 9 AM. (1999)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
88.9	88.8	87.5	88.4	88.9	88.9	46.8	77.9	82.0	61.9	80.0	86.8	88.6	88.9	88.2	88.1	88.1	85.7		
February																			
88.2	87.7	53.0	86.0	78.2	88.5	88.4	87.7	88.6	79.7	82.6	89.4	88.5	87.3	86.4	88.4	88.6	83.8		
March																			
61.6	87.4	79.0																	
April																			
44.8	57.2	51.3	66.7	65.9	45.0	74.0	76.5	58.6	83.0	62.3	87.1	84.9	43.1	52.5	44.1	28.6	58.9		
May																			
27.7	47.0	37.2	87.4	68.8	56.4	24.8	47.2	52.7	42.0	49.1	64.2	31.6	52.0	63.5	55.8	77.8	63.9		
June																			
47.6	68.2	85.5	81.6	68.6	69.8	86.1	66.3	42.1	45.4	66.1	46.8	50.4	47.0	54.2	50.0	37.0	83.2		
July																			
75.4	85.0	84.1	74.5	80.1	80.5	68.6	75.3	70.6	67.3	76.1	72.8	84.2	70.4	76.4	75.5	66.4	70.8		
August																			
64.5	52.4	48.6	51.5	69.8	68.0	57.1	54.6	55.3	79.5	60.1	78.6	64.0	78.5	86.6	85.7	78.8	77.9		
September																			
63.0	78.4	63.5	83.3	57.3	73.0	85.7	73.9	76.3	84.1	73.9	53.9	73.9	78.2	73.9	84.6	84.9	84.7		
October																			
76.0	56.3	85.2	83.8	75.6	76.3	78.1	75.6	85.8	76.4	76.9	55.0	85.9	84.3	86.0	85.9	85.1	72.6		
November																			
62.1	86.9	87.3	84.7	87.3	85.6	87.3	87.9	86.7	86.3	84.2	87.8	76.2	87.6	87.6	87.1	71.6	86.0		
December																			
																88.0	87.6	80.8	

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
84.2	85.8	88.5	87.3	87.9	87.6	79.4	87.2	88.1	86.6	85.5	83.7	88.2	88.8	87.9	86.4	84.6
88.3	88.1	86.9	87.6	82.9	86.5	80.2	86.7	87.5	88.1	86.0	83.6				85.2	85.1
									84.8	85.6	83.3	47.7	55.8	78.7		
86.6	86.4	85.6	65.8	59.8	48.8	85.4	81.7	87.1	87.0	75.9	78.6	48.9	34.7		68.8	65.6
59.3	57.9	41.5	56.8	40.7	40.1	46.2	86.8	75.2	51.1	86.4	56.1	39.7	43.9	49.8	56.0	54.0
84.7	86.0	79.6	61.9	62.6	72.8	52.1	85.1	86.0	77.2	86.3	76.8	85.5	86.0		77.0	68.3
86.9	83.1	86.0	77.3	77.4	58.0	56.5	81.2	59.0	54.7	54.9	69.8	62.2	65.2	52.5	62.9	72.1
65.0	73.0	79.2	76.7	75.1	66.6	85.2	85.6	85.7	74.2	71.8	63.9	67.5	74.9	79.3	75.4	70.7
85.5	66.9	61.7	74.8	84.4	84.0	85.0	61.2	68.0	82.3	75.2	80.7	81.9	82.4		78.5	75.7
87.0	87.3	85.2	81.4	77.3	77.9	79.5	86.9	84.9	83.7	87.0	85.9	80.9	84.1	87.4	83.2	80.5
79.0	87.9	83.3	83.4	87.4	88.0	86.6	87.4	86.4	44.8	49.8	60.5					
52.0	54.3	78.4		87.8	88.1	88.2	74.2	83.2	88.2	88.1	86.8	87.6	88.3			

Table 9. Daily Duration of Sunshine (hours). (1999)

1	2	3	4	5	6	7	8	9	10	上旬計	11	12	13	14	15	16	17			
January																				
0.2	0.8	0.0	2.7	7.9	3.8	2.1	6.1	2.6	3.7	29.9	0.0	0.1	2.5	4.7	1.6	1.5	1.1			
February																				
1.0	3.2	0.1	4.9	5.3	7.2	8.7	4.7	8.6	0.6	44.3	0.0	2.1	0.1	7.8	4.5	9.5	9.0			
March																				
9.5	5.0	9.0																		
April																				
10.6	0.0	8.1	10.0	6.6	4.6	4.4	8.9	6.3	0.2	59.7	0.0	3.3	7.3	6.5	11.4	9.8	10.1			
May																				
11.7	10.8	8.4	0.0	6.4	11.8	11.8	11.4	10.7	9.0	92.0	9.7	11.9	11.6	9.5	8.4	9.7	11.9			
June																				
11.8	5.0	4.1	6.7	6.7	9.8	0.0	11.7	12.2	12.2	80.2	11.8	11.0	8.7	12.2	7.1	5.2	0.0			
July																				
7.3	0.3	3.4	5.3	5.1	6.5	11.8	11.9	10.6	10.6	72.8	2.3	4.5	9.0	7.6	4.9	8.9	6.0			
August																				
4.7	8.6	10.6	9.8	6.8	8.6	4.7	10.4	10.7	4.7	83.9	7.2	10.4	9.1	5.9	3.5	4.5	3.3			
September																				
0.8	9.2	8.3	3.3	10.0	1.0	3.9	2.5	9.0	2.2	50.2	8.3	10.3	5.4	4.6	2.4	0.9	0.9			
October																				
7.6	7.5	0.0	4.9	9.8	7.9	3.5	3.1	8.0	9.4	61.7	5.3	2.6	0.9	0.0	0.0	0.3	8.0			
November																				
0.0	0.0	3.8	6.4	8.5	7.1	9.2	3.2	0.1	2.2	40.5	3.9	2.8	7.3	9.0	0.0	1.3	0.7			
December																				
																2.6	7.3	4.7		

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月計
5.3	0.0	2.6	19.4	2.2	8.9	2.9	1.6	0.4	4.4	6.0	0.1	1.5	7.9	9.3	45.2	94.5
0.0	1.1	5.0	39.1	3.2	7.4	6.3	0.0	2.9	0.7	1.1	5.9				27.5	110.9
									0.0	0.0	7.2	6.5	4.3	7.8		
0.4	1.3	4.4	54.5	10.6	10.7	0.0	1.8	0.8	1.4	6.5	0.0	10.6	11.8		54.2	168.4
1.7	6.3	10.0	90.7	11.9	10.3	7.5	0.1	7.5	8.3	5.3	10.1	12.1	12.0	11.7	96.8	279.5
0.9	0.8	9.3	67.0	11.1	5.3	3.8	0.0	3.6	5.5	0.6	11.1	0.0	2.0		43.0	190.2
0.0	4.1	7.2	54.5	9.6	9.4	6.4	9.0	8.7	7.3	0.0	2.9	1.0	4.0	8.8	67.1	194.3
0.0	5.3	6.9	56.1	5.9	7.3	1.3	1.9	9.6	2.7	4.8	7.7	9.6	6.2	9.0	66.0	206.0
6.5	7.5	5.4	52.2	0.1	2.5	4.3	1.0	6.8	6.7	10.9	9.9	10.3	4.5		57.0	159.4
3.5	8.8	10.1	39.5	10.1	8.3	1.8	9.3	10.1	7.4	0.0	7.1	9.0	8.7	5.5	77.3	178.5
4.2	8.1	6.2	43.5	8.4	8.2	0.0	4.2	2.0	3.9	3.0						
2.3	2.8	4.0		1.4	2.3	4.0	6.0	2.7	0.6	7.5	7.7	4.3	7.5			

Table 10. Daily Atmospheric Pressure 9 AM (mb). (1999)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
1013.4	1006.8	1008.9	1012.7	1014.1	1007.8	999.8	1002.7	1007.0	1008.7	1008.2	1010.8	1012.9	1012.9	1012.6	1007.9	1012.2	1021.4		
February																			
1005.8	1000.1	998.9	1012.3	1011.9	1018.5	1012.5	1012.7	1012.2	1012.2	1009.7	1004.5	1005.5	1012.6	1017.8	1019.5	1016.5	1011.3		
March																			
1009.6	1008.7	1010.5																	
April																			
1011.4	1001.4	1011.5	1010.8	1007.4	998.3	1008.8	1015.4	1013.6	1001.3	1008.0	1001.5	998.0	992.5	1004.3	1012.8	1008.2	1008.4		
May																			
1016.5	1015.6	1010.3	996.1	999.0	999.3	1000.7	1003.0	1004.8	1003.5	1004.9	1006.9	1006.6	1005.1	1006.1	1004.2	1003.3	1005.3		
June																			
1004.7	1001.3	1001.2	1000.9	1006.1	1005.5	999.8	1001.6	1005.0	1005.7	1003.2	1003.4	1003.4	1002.8	1001.3	999.6	998.3	994.7		
July																			
1001.4	1000.2	997.4	1002.2	1002.1	1003.0	1003.6	1003.1	1000.1	999.3	1001.2	998.8	998.5	997.2	995.1	994.4	996.4	998.4		
August																			
1000.8	1001.2	1000.7	1002.5	1001.2	997.2	994.8	998.2	1001.0	999.3	999.7	998.1	998.2	997.5	998.7	999.8	1000.1	999.1		
September																			
1002.7	1007.4	1009.5	1008.4	1004.9	1000.0	1001.5	1000.2	1000.5	998.6	1003.4	995.8	998.7	1000.9	999.4	994.0	1005.1	1006.5		
October																			
1009.4	1004.3	1008.1	1012.6	1009.7	1008.6	1005.4	1004.9	1011.1	1012.3	1008.6	1006.3	1008.1	1006.9	1008.4	1006.9	1008.3	1011.7		
November																			
994.1	1007.9	1012.0	1013.0	1014.3	1014.0	1011.1	1003.9	1007.0	1011.9	1008.9	1010.3	1002.9	1010.9	1013.9	1005.7	1009.2	1016.6		
December																			
																1010.7	1015.1	1009.7	

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
1017.2	1011.0	1010.2	1012.9	1013.9	1014.2	1012.2	1009.8	1003.7	1005.2	1008.8	1006.7	1006.3	1010.1	1011.6	1009.3	1010.1
1007.2	1005.9	1009.9	1011.1	1010.6	1013.4	1014.6	1010.8	1012.6	1010.1	1003.4	1015.0				1011.3	1010.7
									1001.6	1005.4	1011.8	1018.0	1016.9	1013.4		
1004.2	1001.2	1007.4	1003.9	1012.7	1008.5	1002.0	1002.4	1004.6	1005.1	1002.4	1000.0	1009.5	1014.8		1006.2	1006.0
1005.1	990.4	1001.1	1003.4	1006.8	1007.4	1005.1	994.8	998.7	999.9	995.1	998.7	1002.4	1006.6	1007.0	1000.2	1002.8
999.2	1000.2	1002.1	1000.5	1004.5	1002.7	1000.6	993.0	996.3	1001.7	999.0	1001.4	999.8	996.7		999.6	1001.1
996.9	996.5	1000.1	997.2	1002.9	1002.4	998.5	999.3	1002.5	1002.8	995.9	999.0	1000.3	1002.1	1002.6	1000.8	999.7
999.5	1001.9	1002.4	999.5	1001.5	1002.9	1003.2	1004.0	1003.8	1003.0	1000.3	999.9	1003.8	1002.1	1001.1	1002.3	1000.5
1006.7	1005.0	1000.3	1001.2	1000.3	999.5	1001.8	989.1	1003.1	1009.2	1011.1	1010.5	1007.2	1007.0		1003.9	1002.8
1014.0	1013.1	1008.8	1009.3	1010.3	1010.9	1012.3	1012.9	1012.2	1011.8	1003.3	1005.9	1006.2	1011.8	1013.1	1010.1	1009.3
1011.1	1013.6	1011.9	1010.6	1013.0	1014.5	1013.8	1007.3	999.9	1007.2	1011.9	1010.5					
1009.8	1012.3	1010.9		1011.4	1010.7	1013.4	1009.5	1006.8	1012.5	1019.5	1015.6	1010.4	1012.7			