

◎統計と資料

三朝温泉地の気候について (第11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11報として, ひきつづき1987年4月1日から1988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 (11th report)

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Climatological data of the last 12 months (1987. 4. 1-1988. 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). (1987)

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																				
May																				
					17.3	17.7	19.5	21.0	23.1	19.7	16.9	19.9	19.8	14.7	13.8	20.5	20.2			
June																				
25.8	22.1	22.2	27.2	28.0	27.0	28.2	26.2	18.5	18.8	24.4	19.7	23.6	20.0	21.4	17.0	19.6	23.5			
July																				
27.0	24.6	21.6	24.8	23.6	22.5	26.7	25.9	27.6	24.5	24.9	28.2	26.4	27.3	29.3	27.5	28.5	22.8			
August																				
23.4	23.7	27.1	26.0	24.9	23.8	24.8	28.9	25.0	24.1	25.2	26.0	25.6	25.3	26.4	28.2	29.1	28.5			
September																				
25.1	22.9	23.2	23.9	23.2	26.9	26.6	24.1	23.7	22.5	24.2	22.0	21.3	19.9	23.5	25.4	19.1	17.7			
October																				
19.3	18.4	13.8	15.0	17.4	19.6	19.6	19.9	16.6	18.4	17.8	19.4	17.1	16.6	19.3	19.4	18.5	17.6			
November																				
12.2	21.4	17.7	13.5	10.6	8.0	7.7	10.4	9.0	12.0	12.3	11.2	12.0	13.3	10.0	10.6	7.9	12.2			
December																				
4.8	0.7	1.7	2.5	3.2	0.7		-0.6	5.4	2.4	2.3	7.2	4.3	5.0	3.6	2.7	6.1	4.7			

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
144	210	237	185	250	233	228	148	207	254	175	166	181	232	241	210	197
250	244	177	212	183	192	226	239	255	226	215	250	235	254		228	228
264	227	254	265	259	302	303	303	253	270	281	287	273	306	284	284	266
243	252	266	265	258			233	234	243	241	259	294	292	267	258	258
180	178	158	201	198	188	154	197	204	173	166	133	160	178		175	206
173	164	137	175	135	118	105	121	130	119	125	121	144	188	140	131	161
65	112	77	103	85	81	115	130	62	63	125	74	37	38		81	102
32	47	24	44	42	1.1	35	-0.6	2.1	6.5	5.2	4.3	6.1	10.5	3.7	4.2	3.6

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																				
February																				
March																				
April																				
May																				
					21.5	23.3	25.7	27.5	26.4	24.9	21.9	22.2	19.9	18.4	20.4	27.5	21.9			
June																				
31.8	24.4	29.2	32.7	31.8	32.3	34.1	27.9	18.6	22.7	28.5	24.5	27.9	22.0	23.1	21.4	24.0	27.6			
July																				
31.3	29.4	24.6	27.9	29.1	26.6	29.6	29.7	29.3	29.7	28.7	32.6	29.3	32.4	29.9	31.3	30.7	29.1			
August																				
25.3	29.4	29.8	31.8	29.2	30.0	32.2	29.2	33.0	26.1	29.6	32.4	31.4	26.8	30.6	32.5	32.4	29.8			
September																				
29.8	27.3	26.9	28.9	31.1	31.3	29.5	27.3	26.5	25.2	28.4	23.6	22.0	27.0	31.4	29.0	22.3	19.7			
October																				
24.7	24.0	24.1	25.7	28.6	26.7	28.6	25.1	25.0	28.9	26.1	21.9	21.8	23.0	26.5	20.9	20.0	20.3			
November																				
19.7	24.2	18.0	19.8	13.5	13.3	18.3	15.9	18.0	21.0	18.1	22.2	19.4	14.3	12.4	15.6	19.5	14.9			
December																				
7.4	3.4	7.0	7.2	8.0	5.4		13.1	9.8	15.1	8.5	9.4	7.9	6.6	10.1	13.5	11.1	8.1			

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
22.2	28.7	27.3	23.0	29.7	24.8	25.8	17.1	27.5	26.6	20.5	21.0	24.7	26.7	27.4	24.7	24.2
30.9	27.4	20.6	24.9	20.7	24.8	28.6	30.4	29.6	27.4	26.5	30.5	29.1	30.3		27.8	27.1
31.2	25.0	28.9	30.3	30.5	32.7	34.9	31.5	28.7	32.4	33.7	32.3	34.0	35.1	30.4	32.4	30.4
26.6	31.1	29.7	30.3	33.0	28.4	27.1	29.3	26.4	27.8	31.2	34.3	32.9	35.6	31.0	30.6	30.2
18.4	22.3	27.1	24.3	30.4	26.7	25.3	20.8	26.0	21.9	20.0	21.8	25.1	19.2		23.7	25.4
24.5	21.8	17.4	21.8	16.8	17.6	18.8	12.8	18.1	16.0	22.2	23.7	26.6	21.1	16.5	19.1	22.2
19.2	13.2	17.4	16.8	20.0	18.0	19.3	14.5	16.4	16.1	15.9	9.8	5.8	10.3		14.6	16.5
10.8	13.8	11.7	10.3	8.3	14.3	14.3	17.3	19.9	20.2	20.7	21.9	20.9	11.9	10.3	16.3	11.7

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																				
February																				
March																				
April																				
May																				
					4.1	4.7	6.0	8.0	9.5	6.4	11.5	15.3	13.2	9.3	7.4	8.8	11.7			
June																				
13.2	20.7	16.6	14.4	17.7	14.7	17.6	17.8	15.9	11.2	16.0	8.9	12.8	17.3	16.9	15.9	13.2	12.0			
July																				
20.0	19.9	20.5	20.7	19.6	20.5	19.1	19.1	20.2	17.6	19.7	20.5	20.8	19.7	22.7	22.5	25.8	22.5			
August																				
22.1	20.9	19.4	23.2	22.7	20.4	18.4	23.1	22.2	22.1	21.4	19.9	20.2	21.7	20.4	20.7	21.8	22.1			
September																				
18.3	17.3	18.0	16.5	15.5	19.7	22.6	22.2	21.3	21.2	19.2	19.5	16.6	17.2	19.6	19.8	17.6	17.0			
October																				
15.5	14.1	10.7	8.5	10.9	15.1	13.8	12.3	10.2	12.2	12.3	15.0	14.0	11.6	11.2	17.5	17.4	15.3			
November																				
9.3	17.9	13.9	10.3	7.7	4.2	1.7	4.5	3.3	8.1	8.1	6.7	6.3	9.7	9.4	5.0	4.0	5.6			
December																				
-0.6	-0.4	-0.2	0.2	0.4	0.6		-1.6	2.5	0.4	0.1	4.4	3.0	2.0	1.4	-0.4	-0.4	-0.2			

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
8.0	9.1	11.8	10.6	12.6	19.2	17.0	13.7	10.5	15.1	10.8	8.9	6.2	14.0	12.2	12.7	9.9
15.6	15.9	16.5	14.5	15.6	13.3	10.9	12.9	15.5	16.2	16.7	16.3	19.5	17.6		15.4	15.3
21.6	22.0	22.5	22.0	22.5	24.5	25.3	24.2	22.1	21.1	22.5	22.1	20.5	21.5	23.2	22.7	21.5
21.9	21.2	21.3	21.1	21.5	24.0	20.7	19.2	22.0	19.9	17.8	21.9	21.9	22.5	20.7	21.1	21.2
15.0	11.6	8.9	16.3	12.0	14.2	11.7	14.3	16.9	9.2	7.1	5.5	8.9	16.3		11.6	15.7
13.4	12.1	10.7	13.8	8.3	6.3	5.3	10.4	10.1	10.2	6.8	6.0	7.4	16.4	10.9	8.9	11.6
2.9	5.5	4.3	5.9	3.0	5.0	4.4	5.9	3.3	1.9	9.8	5.8	2.3	2.0		4.3	6.1
1.8	0.5	-0.7	1.1	1.4	-1.1	0.1	-2.0	-0.4	5.1	2.9	1.7	4.2	3.3	-0.4	1.3	0.8

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																	
February																	
March																	
April																	
May																	
					0	0	0	0	0	0	0	45	28.5	15	0	0	0
June																	
0	0	21.5	0	0	0	0	71.5	59.0	0	152.0	0	0	3.0	0	4.0	0	0
July																	
0	0.5	13.5	6.0	2.5	7.5	0	0	0	0	30.0	0	3.5	5.0	37.0	0	0	42.0
August																	
0.5	0	4.0	0	18.0	0	0	7.0	7.5	13.5	50.5	0	19.0	4.0	0	0	14.5	25.5
September																	
0	0	0	0	0	0	0	30.5	0	3.5	34.0	4.5	22.0	13.0	0.5	1.5	21.0	54.0
October																	
0	0	0	0	0	1.0	0	1.5	0	0	2.5	0	0.5	0	0	0	103.0	164.0
November																	
0	3.5	8.5	1.5	8.5	0.5	1.0	4.0	0	0	27.5	0	0.5	6.5	4.5	5.5	0	5.0
December																	
1.0	30.0	1.5	0.5	0	56.0		0.5	1.0	0	90.5	5.0	1.0	11.5	0.5	0	0.5	5.0

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	0	34.5	0	2.5	4.5	0.5	0	10.5	4.5	0	0	0	0	22.5	57
0	0	37.0	44.0	8.0	0.5	0	0	0	0	0	0	0	0	0	8.5	204.5
0.5	30.5	0.5	119.0	5.0	0	0	4.0	0.5	0	0	0	0	0	0	9.5	158.5
4.0	15.0	2.0	84.0	0	3.5	20.0	1.0	8.0	3.5	2.5	0	0	0	4.0	42.5	177.0
52.0	2.0	0	170.5	0	0	0	11.5	0	1.0	0	0	0	0.5		13.0	217.5
0	11.0	0	278.5	0	0	0	15.0	0	0	0	0	0	32.5	18.0	65.5	346.5
0	1.0	0	23.0	0	0	0	0	0	0	26.5	21.0	41.5	1.5		90.5	141.0
0.5	0	0	24.0	0	0	0	0	0	0	0	0	0	5.5	1.0	6.5	121.0

Table 5. Wind Direction at 9 AM. (1987)

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

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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SE	CALM	CALM	SE	SW	NE	CALM	NNE	SW	SE	ENE	NNE	CALM	S	SSW
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SW	CALM	SE	NE	WSW	E	ENE	ENE	SW	NNW	CALM	SW	SSW	SW	
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ESE	ENE	CALM	NNE	SW	W	NNW	W	SSE	NE	E	SSE	SW	SSW	SSE
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NW	WSW	SW	S	CALM			CALM	E	WSW	SW	N	ESE	ESE	S
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CALM	ENE	SW	CALM	CALM	CALM	CALM	CALM	WSW	NW	WSW	SW	CALM	N	
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SW	NE	WSW	SSE	SE	CALM	SSW	CALM	NE	NNE	S	CALM	ENE	NE	N
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WNW	CALM	CALM	CALM	N	CALM	NE	N	CALM	ENE	NE	NE	WSW	CALM	
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NE	ESE	CALM	ENE	NE	NE	CALM	CALM	ENE	SSE	ENE	ENE	CALM	SW	ESE
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Table 6. Wind Speed at 9 AM. (1987)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
February															
March															
April															
May															
					0.2	1.1	1.4	0.1	2.0	0.0	1.1	1.0	2.2	0.7	0.8
June															
0.2	3.1	1.3	0.9	0.8	1.0	0.4	1.5	1.1	1.6	2.1	1.1	0.5	0.6	1.3	0.9
July															
1.9	0.2	0.4	0.1	0.9	1.2	0.7	0.8	0.2	0.5	1.4	0.5	0.5	1.3	0.4	2.9
August															
1.3	0.6	2.0	0.5	1.4	1.2	0	1.0	0.5	1.5	0.5	0.2	0.7	0.9	1.1	2.7
September															
0.3	1.0	0.8	1.3	0.2	2.6	0.8	0.5	0.5	0.1	0.2	0.8	0.4	0.6	0.8	1.4
October															
1.0	1.0	0.1	0.4	1.2	0.5	2.2	1.7	1.0	0.4	0.5	0.0	0.8	0.8	1.4	0.6
November															
0.7	2.1	1.1	1.6	4.9	0.1	0.5	0.4	1.7	0.6	0.4	1.7	2.4	0	1.4	0.4
December															
0.1	0.3	1.3	1.4	1.1	0.4		0.1	1.3	0.2	0.6	0.5	0.1	0.8	0.2	0.8

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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1.9	0.0	0.2	1.0	0.7	2.4	0.1	0.9	1.0	1.5	0.8	1.0	1.0	3.2	1.7
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0.8	0.3	1.4	1.8	1.5	1.2	0.5	0.7	1.7	1.5	0.3	1.0	1.5	1.4	
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0.5	0.8	0.0	1.2	0.9	4.5	1.1	3.8	0.5	0.8	0.5	1.0	0.8	3.7	0.2
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1.5	0.5	1.0	0.5	0.3			0.4	1.7	1.1	0.6	0.9	1.0	1.3	4.7
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0.2	1.8	0.6	0.4	0.2	0.2	0.2	0.1	0.5	0.9	3.4	0.7	0.4	0.7	
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3.5	0.8	1.7	1.2	0.4	0.3	0.5	0.1	0.5	0.3	0.3	0.4	0.6	0.5	1.6
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0.3	0.3	0	0.2	0.9	0.0	1.7	0.9	0.2	0.8	0.6	1.7	1.0	0.1	
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1.2	0.8	0.3	1.0	0.8	1.7	0.3	0.2	1.1	0.3	0.8	1.5	0.4	1.6	1.5
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☉ Cloudy days, ⊕ Slightly cloudy days, ● Rainy days, * Snowy days, △ Hail

20	21	22	23	24	25	26	27	28	29	30	31	○	⊕	☉	⊕	●	*	△	
○	○	☉	☉	●	○	☉	☉	○	○	○	○	14	0	11	0	1	0	0	
☉	☉	○	○	○	○	○	☉	○	☉	○		18	0	10	0	2	0	0	
☉	☉	☉	☉	☉	☉	○	☉	○	○	○	☉	12	0	16	0	3	0	0	
○	○	☉	●	☉	☉	☉	○	○	○	○	●	13	0	15	0	3	0	0	
○	○	○	☉	●	☉	●	○	○	○	☉		14	0	8	0	8	0	0	
○	●	○	○	●	☉	☉	○	○	○	●	●	14	0	11	0	6	0	0	
○	○	○	☉	☉	☉	○	☉	●	●	○		15	0	9	0	6	0	0	
○	●	○	○	○	○	○	○	○	○	●	☉	13	0	9	0	8	1	0	

Table 8. Daily Humidity (%) at 9 AM (1987)

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																		
May																		
					32.5	36.4	32.9	38.1	23.0	32.6	67.4	57.7	70.9	58.9	62.2	48.3	60.1	
June																		
37.0	61.2	75.1	38.4	48.1	48.0	43.0	45.0	78.6	54.7	52.9	57.7	44.9	74.9	60.9	83.3	55.3	52.1	
July																		
51.9	62.2	83.1	57.1	63.4	80.8	57.7	58.0	56.3	59.0	63.0	46.8	66.6	54.7	63.6	73.7	53.0	81.4	
August																		
73.6	69.4	60.7	79.1	81.1	74.9	64.6	52.6	83.0	80.5	72.0	64.0	71.5	71.2	61.2	49.9	50.3	55.4	
September																		
51.8	67.5	66.9	66.1	60.6	50.5	57.4	82.4	73.9	81.7	65.9	82.2	82.3	83.2	75.3	66.3	80.5	83.0	
October																		
78.1	78.1	75.4	72.2	59.9	75.7	62.3	74.8	74.1	76.5	72.7	70.6	76.3	51.9	70.3	79.6	83.3	82.4	
November																		
66.6	59.7	83.0	79.9	65.8	77.2	78.6	82.0	75.2	78.1	74.6	84.7	76.3	77.7	80.9	83.2	84.3	46.0	
December																		
84.1	82.1	84.7	84.0	77.8	84.4		84.8	83.1	85.7	83.4	79.5	84.2	84.0	84.8	85.3	75.6	77.5	

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
69.1	37.5	49.6	58.2	44.5	50.2	77.7	78.4	57.3	45.0	73.0	55.8	40.8	45.1	44.2	55.6	48.8
45.1	37.6	76.0	58.8	69.8	67.9	43.2	45.3	39.7	56.4	62.1	57.9	61.8	51.9		55.6	55.8
63.4	82.4	67.8	65.3	74.3	50.8	49.8	49.3	76.1	65.0	59.3	52.2	64.4	47.5	61.8	59.1	62.5
78.1	68.0	71.2	64.1	68.8			69.9	82.3	77.0	62.4	73.4	57.8	53.9	74.0	68.8	68.3
83.0	75.8	67.5	77.9	70.8	74.2	66.7	81.2	84.1	59.2	41.1	68.3	73.0	79.1		69.8	71.2
73.2	46.7	73.7	70.8	62.5	69.1	78.2	84.4	84.9	81.3	84.3	73.4	62.5	82.6	78.7	76.5	73.3
71.9	82.8	84.2	77.2	75.6	85.4	70.3	57.8	85.0	85.4	83.5	79.2	82.3	85.7		79.0	76.9
80.2	83.8	85.0	82.0	70.1	84.9	83.2	84.2	81.2	84.8	78.7	81.9	84.2	76.5	83.5	81.2	82.2

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																			
February																			
March																			
April																			
May																			
					11.8	11.7	11.4	10.9	5.8	73.0	0.4	0.1	0	6.4	6.6	4.8	0		
June																			
11.7	0	5.3	9.2	10.7	11.5	9.2	0	0	12.3	69.9	9.4	2.1	0	1.2	0	11.2	10.4		
July																			
1.3	0	0	0	8.3	0.1	5.5	7.8	5.1	3.7	31.8	0	0	5.0	0.8	0	0.6	1.1		
August																			
0.5	5.6	5.2	0	0.6	7.6	0.1	0	4.1	0.1	23.8	12.0	9.4	0	9.0	8.7	7.2	0.5		
September																			
9.9	7.9	1.2	10.8	10.6	5.0	0.1	0.1	1.7	0	47.3	0	0	0.4	7.7	6.6	0	0		
October																			
4.1	4.5	5.4	10.5	6.4	8.9	8.6	7.1	9.9	9.6	75.0	0	0.9	5.9	3.4	0	0	2.4		
November																			
8.2	0	0	4.2	1.2	2.6	9.3	3.6	6.6	7.1	42.8	9.1	1.3	0	0	1.7	8.5	2.3		
December																			
2.3	1.5	2.7	0	0.9	0	4.4	8.2	0	8.4	28.4	0	0	0.2	2.3	3.4	5.0	0.3		

18	19	20	中旬計	21	22	23	24	25	26	27	28	29	30	31	下旬計	月総計
4.0	12.3	5.7	40.3	6.6	0	0	0	6.6	0	0	11.3	0.4	8.3	10.9	44.1	157.4
10.0	1.0	0.1	45.4	0.6	9.0	9.2	5.9	10.4	7.9	7.0	0.2	0	0.2		50.4	165.7
5.0	0	3.5	16.0	0	1.1	8.5	1.7	0	10.1	5.5	6.0	5.5	6.2	0.6	45.2	93.0
0	4.2	1.4	52.4	3.3	0.3	1.7	0.1	0	3.5	6.1	8.9	7.9	8.0	2.6	42.4	118.6
0.1	5.6	11.0	31.4	9.7	8.0	1.7	0	0.9	6.4	8.0	10.7	7.5	0		52.9	131.6
6.2	5.3	4.2	28.3	1.5	6.6	6.9	0	0.1	0	9.8	9.1	7.6	0	0	41.6	144.9
8.8	0.7	8.7	41.1	5.9	5.7	4.5	2.1	8.1	1.9	0.1	0	0	3.1		31.4	115.3
4.1	7.1	3.4	25.8	0.3	7.9	7.8	8.8	8.6	7.1	8.1	8.2	7.5	0.1	1.2	65.6	119.8

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

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
0.0	8.3	6.9	6.5	3.3	2.3	1.3	5.1	5.0	-0.1	3.9	0.6	-0.7	1.1	2.7	8.0	5.5	3.1		
February																			
1.8	7.2	-3.8	-0.5	11.1	5.3	-1.3	-0.5	1.0	0.2	2.1	0.1	1.9	1.9	2.1	0.2	0.3	0.3		
March																			
4.3	4.6	0.4	0.3	1.5	0.8	1.3	2.1	1.2	5.2	2.2	10.9	8.7	8.1	9.2	5.3	2.9	1.0		

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

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
14.5	9.9	12.7	8.0	6.6	8.1	8.2	10.5	6.7	3.7	8.9	4.9	7.5	12.9	17.2	8.8	13.7	7.6		
February																			
9.7	8.7	-1.7	6.7	15.4	7.5	2.7	4.2	4.6	3.0	6.1	3.7	7.8	8.4	9.3	2.4	3.6	5.8		
March																			
7.0	8.3	3.1	5.7	7.0	7.5	3.8	7.0	8.8	13.3	7.1	15.8	14.6	18.0	19.4	9.5	5.2	4.8		

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

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17		
January																			
-0.8	6.5	2.5	2.0	2.2	-1.9	-2.3	3.5	0.5	-0.9	1.1	-1.2	-2.1	-1.1	-1.4	6.7	4.7	1.2		
February																			
-1.1	-3.2	-4.3	-3.2	3.3	1.3	-2.7	-1.5	-1.0	-1.0	-1.4	-0.5	-0.7	-1.0	-1.7	0.2	-0.3	-1.0		
March																			
3.2	1.9	-0.9	-1.7	-1.4	-1.7	-0.9	-1.9	-2.3	0.2	-0.6	0.2	3.4	1.1	4.3	2.1	1.6	0.7		

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
2.1	1.0	1.9	2.5	10.2	9.4	2.1	-0.1	1.9	3.1	0.9	4.0	4.2	1.1	4.7	4.2	3.5
0.1	0.7	2.1	1.0	1.1	-0.3	2.9	2.9	2.1	2.7	3.7	2.7	2.3			2.2	1.7
4.7	7.6	7.4	6.6	6.8	8.6	7.9	7.4	5.5	6.1	6.4	5.2	6.0	8.7	9.1	7.1	5.3

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
4.6	9.9	15.0	10.2	15.0	14.6	9.8	2.4	7.7	7.7	7.8	10.1	12.2	10.6	6.0	9.4	9.5
1.6	7.1	7.2	5.7	4.0	11.4	5.8	8.0	8.7	8.7	5.3	9.6	8.4			7.8	6.4
12.2	12.2	10.5	12.2	10.4	12.7	12.4	11.7	8.0	7.4	10.7	15.2	11.7	10.1	12.2	11.1	10.2

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	-1.2	-1.3	0.6	-0.8	6.7	-1.9	-3.5	-0.1	0.2	-1.8	-0.8	-1.0	-1.2	0.6	-0.4	0.4
-1.0	-1.9	-2.2	-1.0	-0.3	-2.4	2.2	-0.9	-1.3	0.7	0.5	-0.2	-0.8			-0.3	-0.9
0.7	0.6	2.2	1.6	2.6	6.9	3.1	0.5	1.7	4.4	-1.3	-2.7	3.7	5.6	-0.3	2.2	1.1

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

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17			
January																				
0	9.0	2.0	23.5	13.5	0	2.5	0.5	1.0	8.0	60	1.0	0.5	0	0	5.5	1.0	5.0			
February																				
0.5	2.0	24.0	1.0	1.5	4.5	8.5	5.0	1.5	28.5	77	0	0	0	15.0	12.5	22.0	10.0			
March																				
8.5	0.5	20.5	1.5	0	0	5.5	0.5	4.5	0.5	42	1.5	7.0	0	14.5	13.0	0	7.5			

Table 5. Wind Direction at 9 A.M. (1988)

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

Table 6. Wind Speed at 9 A.M. (1988)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
January															
1.2	0.0	0.0	0.9	0.6	0.4	0.4	1.8	5.5	0.5	0.0	0.8	0.1	2.5	0.6	0.1
February															
0.5	2.5	3.4	0.5	1.9	0.2	4.1	0.1	0.5	0.0	0.0	1.0	0.2	0.6	0.0	0.0
March															
0.1	0.7	0.0	0.6	0.5	0.2	4.6	0.5	0.3	0.4	2.1	0.0	0.2	0.9	1.9	2.5

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
4.0	0	0	21.5	5.5	2.0	0.5	0	0	0	0	0	0	0	2.0	10	91.5
29.5	3.0	1.0	9.3	7.5	0	11.5	0	0	0	1.5	0	0.5			21	191
2.0	0	0	45.5	5.5	15.0	0.5	0	6.0	25.0	0	0	0	0	0	52	139.5

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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E	NE	CALM	SW	S	SW	WSW	WSW	WSW	CALM	SE	ENE	SE	ENE	WSW
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CALM	CALM	CALM	CALM	ENE	SSW	CALM	CALM	CALM	W	N	SSW	ENE		
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CALM	WSW	CALM	ENE	CALM	CALM	CALM	E	CALM	NE	CALM	E	WSW	E	NE
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17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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0.9	1.2	0.2	0.2	3.6	0.4	4.4	3.7	1.3	0.2	0.5	0.5	0.3	0.5	4.4
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0.0	0.0	0.2	0.2	0.5	0.7	0.0	0.1	0.1	0.4	0.5	0.8	0.9		
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0.2	1.1	0.2	3.0	0.2	0.0	0.6	2.6	0.1	1.7	0.2	0.8	0.8	2.2	1.0
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Table 7. Daily Weather (1988) : ○ Clear Days, ⊙ Fine Days,

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
January																		
○	●	●	●	●	○	⊙	⊙	●	*	*	⊙	○	○	●	○	⊙	●	⊙
February																		
*	⊙	*	○	⊙	⊙	*	*	*	*	⊙	⊙	⊙	⊙	*	*	⊙	*	⊙
March																		
●	⊙	*	*	⊙	⊙	*	⊙	○	○	○	⊙	○	⊙	⊙	⊙	*	●	⊙

Table 8. Daily Humidity (%) at 9 A. M. (1988)

1	2	3	4	5	6	7	8	9	10	上旬 平均	11	12	13	14	15	16	17	
January																		
78.0	83.0	82.5	84.9	79.3	76.4	75.1	82.9	39.4	82.6	76.4	83.1	81.9	83.2	68.9	83.1	82.6	83.6	
February																		
80.3	41.0	83.0	72.2	41.5	83.5	68.7	80.0	69.7	83.4	70.3	80.9	83.6	81.6	77.6	81.1	82.1	76.2	
March																		
83.6	83.5	82.0	77.7	81.7	79.4	77.4	57.9	83.0	78.5	78.5	40.1	78.1	68.2	59.5	75.2	44.0	82.9	

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

1	2	3	4	5	6	7	8	9	10	上旬 計	11	12	13	14	15	16	17	
January																		
8.3	0	3.8	0	0	5.8	0	1.4	3.4	1.4	24.1	0.4	0.1	7.9	8.5	0	4.4	0.8	
February																		
4.7	1.0	0	5.4	0.8	1.4	1.3	1.5	2.1	1.0	19.2	0	2.8	1.7	4.2	0.1	1.2	4.0	
March																		
0	0	0.5	4.1	1.7	2.0	0.9	6.3	6.5	8.7	30.7	3.3	0.1	7.9	0.7	1.6	0.1	0	

☉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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○	☉	○	*	*	○	☉	☉	●	○	○	☉	10	0	9	0	8	4	0
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○	☉	○	●	☉	☉	☉	●	○	☉			4	0	14	0	2	9	0
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○	☉	☉	●	○	●	●	○	○	○	☉	○	10	0	12	0	5	4	0
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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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82.2	79.5	83.1	81.1	57.2	82.9	45.1	44.5	63.8	52.6	72.8	64.1	70.7	83.9	44.6	62.0	73.2
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82.9	82.3	77.7	80.6	81.5	67.1	84.4	84.0	73.8	75.6	82.9	68.4	77.5			77.2	76.0
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83.4	74.2	41.3	64.7	46.5	82.9	69.8	43.4	82.7	77.4	46.3	52.4	81.5	51.2	43.4	61.6	68.3
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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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0	48	8.9	35.8	0	0.9	2.7	3.1	5.6	3.9	1.7	3.5	3.9	7.4	1.4	34.1	94.0
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0.6	6.2	0.9	21.7	0.4	9.9	0	3.3	4.9	0.2	0	6.3	0			25.0	65.9
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6.5	1.3	5.8	27.3	0.1	0.7	3.3	7.7	0	0	9.2	3.3	3.6	1.0	8.0	36.9	94.9
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