

한국기후표

2011

CLIMATOLOGICAL NORMALS OF KOREA

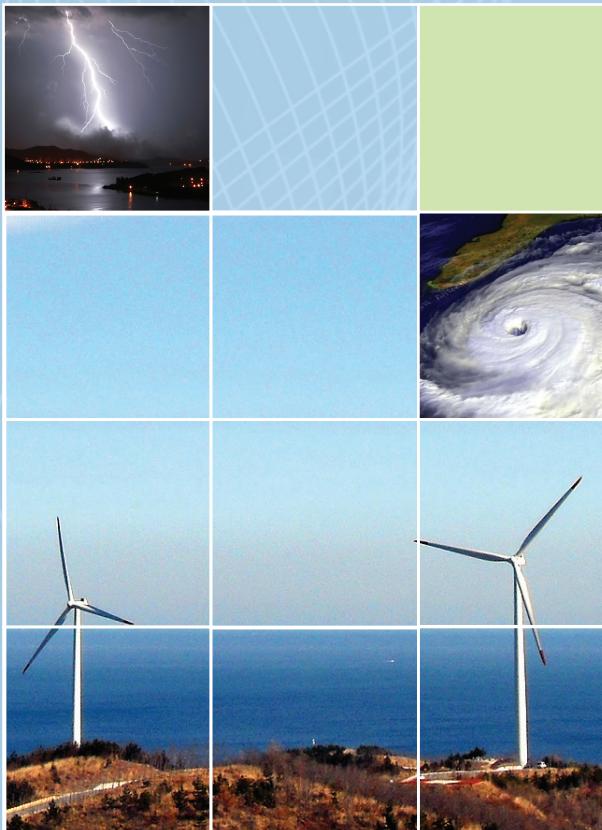
기상청
Korea Meteorological Administration

발간등록번호
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한국기후표

CLIMATOLOGICAL NORMALS OF KOREA

1981~2010



2011

차 례

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일러두기

1. 모든 요소의 관측시각은 동경 135° 자오선을 기준으로 한 한국표준시이다.
2. 통계기간은 1981~2010년(30년간)이며, 관측기간이 30년 미만인 곳은 자료가 있는 모든 기간에 대해 통계 수록하였으나, 그 기간이 10년 미만인 곳은 제외시켰다.
3. 관측 장소가 이전된 지점에 대해서는 통계기간을 분리하여 통계하였으며, 10년 이상 기간의 최근자료를 우선으로 사용하였다.
4. 요소별 통계기간은 연속적인 경우에는 통계 시작 연도를 표시했고, 마지막 연도는 모두 2010년 12월이므로 생략했다. 다만, 관측이 중단된 관측소에 대해서는 마지막 연도를 표시했다.
5. 자료의 산출방법은 아래와 같다.
 - 가. 일별 평년값
 - 1) 일별로 누년 평균한 값을 5일간 이동 평균한 값이다.
 - 2) 기압, 평균기온, 상대습도, 증기압, 운량은 1996년까지는 1일 4회(03시, 09시, 15시, 21시), 1997년부터는 1일 8회(03시, 06시, 09시, 12시, 15시, 18시, 21시, 24시)의 관측값을 평균한 값을 이용하였다.
 - 3) 기압은 해면기압을 수록하였다.
 - 4) 최고, 최저기온은 일중 극값(최고, 최저)을 이용하였다.
 - 5) 평균풍속은 24시간 풍정으로부터 구한 값을 이용하였다.
 - 6) 강수량과 일조시간은 00시부터 24시까지의 일합계 값을 이용하였다.
 - 7) 증발량은 09시부터 다음날 09시까지의 일합계 값을 이용하였다.

NOTES

1. The observation time for all elements is the Korean Standard Time (KST), 135° E meridian (UTC plus 9 hours).
2. The statistics are based on the period of 30 years, from 1981 to 2010. When the total observation period is shorter than 30 years, the entire period is used for statistics while records with less than 10-year observation are excluded.
3. When a station is relocated, data are separately compiled for statistics. The data of the latest and observation period longer-than 10 years are used preferably.
4. The beginning years of statistics are indicated on page viii, while the final year (assuming December 2010) are not given except for stations of which observation is suspended before December 2010.
5. Definition of terms used:
 - a. Daily normals
 - 1) Daily normals are derived from 5-days moving averages of daily means over the given period.
 - 2) Atmospheric pressure, mean temperature, relative humidity, vapour pressure, and cloud amount are obtained by averaging four observations a day (0300, 0900, 1500, 2100 KST) in 1981-1996 and eight observations a day (0300, 0600, 0900, 1200, 1500, 1800, 2100, 2400 KST) in 1997-2010.
 - 3) Atmospheric pressure is the mean sea-level pressure.
 - 4) Maximum and minimum temperatures are the daily extremes values.
 - 5) Mean Wind speed is derived from the daily wind run.
 - 6) Precipitation amount and sunshine hours are the daily totals from 0000 to 2400.
 - 7) Evaporation is the accumulated values from 0900 to 0900 KST next day.

나. 순별 평년값

- 1) 각 월을 상순, 중순, 하순으로 구분한 순별 평균값에서 평년값을 구했다. 상순은 1~10일, 중순은 11~20일, 하순은 21~말일로 구분하였다.
- 2) 기압, 평균기온, 상대습도, 증기압, 풍속, 운량은 일평균값을 순평균한 것이다.
- 3) 최고, 최저기온은 일최고, 일최저기온을 순평균한 것이다.
- 4) 강수량, 증발량, 일조시간은 일합계값을 순합계한 것이다.

다. 월별 평년값

- 1) 각 월의 평균값에서 평년값을 구했다.
- 2) 기압, 평균기온, 상대습도, 증기압, 풍속, 운량은 일평균값을 월평균한 것이다.
- 3) 지면온도와 0.05~0.3m 깊이의 지중온도는 1일 4회(03시, 09시, 15시, 21시) 관측값을 평균한 값이다.
- 4) 일최고기온, 일최저기온, 최저초상온도는 매일의 극값(최고, 최저)의 월평균값에서 구했으며, 0.5~5.0m 깊이의 지중온도는 09시 1회 관측값에서 평년값을 구했다.
- 5) 월최고기온과 월최저기온은 그 달의 극값(최고, 최저)에서 평년값을 구했다.
- 6) 강수량, 증발량, 일조시간, 강수·안개 계속시간, 전천일사량은 월합계값에서 평년값을 구했다.

b. 10-day normals

- 1) Each month is divided into three terms; the 1st (1-10th of the month), the 2nd (11-20th of the month) and the 3rd (21-the end of the month). The 10-day normals indicate the means of individual terms.
- 2) Atmospheric pressure, mean temperature, vapour pressure, relative humidity, wind speed, and cloud amount are obtained by averaging daily means over the period of each term.
- 3) Maximum and minimum temperatures are obtained by averaging daily extremes over the period of each term.
- 4) Precipitation, evaporation, and sunshine hours are obtained by summing up daily values of each term.

c. Monthly normals

- 1) Monthly normals are derived from the averages of each monthly means.
- 2) Atmospheric pressure, mean temperature, vapour pressure, relative humidity, wind speed, and cloud amount are monthly averages of the daily means.
- 3) Land surface temperature and soil temperature at 0.05-0.3m depths are derived from four observations (0300, 0900, 1500, 2100 KST).
- 4) Daily maximum and minimum temperatures and grass minimum temperature are obtained by averaging their daily extremes. Soil temperatures at 0.5-5.0m depths are measured at 0900 KST.
- 5) Monthly maximum and minimum temperatures are derived from the extreme values of each month.
- 6) Monthly precipitation, evaporation, sunshine hours, duration of precipitation, duration of fog and global solar radiation are obtained by summing up monthly totals.

7) 대형증발량은 4~10월까지만 관측한 값이다.

8) 풍향별 관측횟수의 백분율과 풍향별 평균풍속, 풍향별 최대풍속은 매시 (1일 24회) 관측값으로부터 구한 값이다.

9) 전년(ANNUAL)은 연평년값을 수록한 값으로 월별 평균 또는 합계와 다를 수 있다.

라. 표준편차

1) 기압, 평균기온, 증기압은 표준편차를 수록하였다.

2) 표준편자는 다음 식을 이용하였다.

$$S.D. = \sqrt{\frac{1}{N} \sum_{i=0}^N (X_i - \bar{X})^2}$$

여기서 \bar{X} 는 총관측횟수 N에 대한 관측값 X_i 의 평균값이다.

마. 계급별 일수

주요 기상요소에 대하여 계급별로 구분해서 해당일수를 월별로 산출하였다.

바. 현상별 일수

눈, 서리, 얼음, 우박, 안개, 황사, 뇌전이 관측된 일수를 월별로 산출하였다.

1) 눈일수는 눈, 진눈깨비, 소낙눈, 소낙성 진눈깨비, 짜락눈, 가루눈, 눈보라가 나타난 일수를 포함한다.

2) 우박일수는 우박, 짜락우박, 동우가 나타난 일수를 포함하며, () 안에 표현된 일수는 우박이 나타난 일수만을 나타낸다.

7) Large-scale evaporation is derived from data observed for 7 months from April to October.

8) Percentage frequency of wind direction, mean wind speed of wind directions, and maximum wind speed of wind directions are derived from hourly observations (24times a day).

9) The values in the ANNUAL are annual normals. They can be different from monthly averages or sums.

d. Standard deviation (S.D.)

1) Atmospheric pressure, mean temperature, and vapour pressure have standard deviation.

2) Standard deviation is obtained from the following formula:

$$S.D. = \sqrt{\frac{1}{N} \sum_{i=0}^N (X_i - \bar{X})^2}$$

where \bar{X} is the mean of X_i , and N is the total number of observations.

e. Categorized frequencies of weather Phenomena

The number of days with major weather elements in each classification for each month

f. Frequency of weather phenomena

The numbers of days with snow, frost, freezing, hail, fog, sand dust, and thunderstorm

1) The number of snow days indicates the total days with snow, sleet, snow shower, rain and snow mixed shower, snow pellets, snow grains, or snow storm.

2) The number of hail days indicates the total days with hail, small hail, or ice pellets, while the number in parenthesis indicates the days of hail only.

- 3) 안개일수는 시정 1km 미만의 안개와 낮은 안개가 나타난 일수를 포함한다.
- 4) 뇌전일수는 뇌전, 천둥이 나타난 일수를 포함하며 번개만 나타난 날은 제외한다.

사. 계절별 평년값

각 지점별로 봄은 3~5월, 여름은 6~8월, 가을은 9~11월, 겨울은 12~2월의 월평년값을 사용하여 계절별로 산출평균하였다. 겨울은 29년 기간(1981년 12월 ~2010년 2월)에 대해 통계하였다. 강수량과 증발량, 일조시간은 합계하였고, 나머지 요소는 산출평균하였다.

아. 연평년값

1981~2010년까지 각각의 연값을 산출하여 산출평균하였다.

자. 계절값

현상의 첫날과 마지막날이 해를 달리 하여 겨울철 동안에 나타날 수 있는 계절값(얼음, 눈, 서리 등)은 1981년 7월부터 2010년 6월까지의 기간에 대하여 평년값을 산출하였다.

극값과 가장 오래 계속된 기간은 창설 이래의 관측값을 대상으로 하였다.
가장 오래 계속된 기간은 해당 현상이 가장 길게 계속된 때의 첫날과 마지막 날 및 일수를 수록하였다.

- 3) The number of fog days indicates the total days of fog with visibility less than 1km.
- 4) The number of thunderstorm days indicates the total days of thunderstorm or thunder. The days of lightning only are excluded.

g. Seasonal normals

They are obtained by averaging or summing monthly normals from March to May for Spring, from June to August for Summer, from September to November for Autumn and from December to February for Winter. The winter normals are based on the period of 29 years from November 1981 to February 2010.

h. Annual normals

It is obtained by averaging each year's values from 1981 to 2010.

i. Seasonal extremes

The data period of normal begins from July 1981 to June 2010 for those seasonal extremes which usually occur during winter such as first and last day of ice, snow, frost, etc.

The entire data period from the first day of observation at each station are used for the earliest, latest and longest period of seasonal extremes.

The longest period is from the first to the last occurrence day of the phenomenon, which lasted longest without any break.

DAILY NORMALS

090 Sokcho

1 January

Date	Elem.	(0.1hPa) Pressure.		(0.1C) Temperature.				(0.1%) Relative Humidity	(0.1hPa) Vapour Pressure.		(0.1m/s) Mean Wind Speed	(1/10) Cloud Amount	(0.1mm) Precip.	(0.1mm) Evap.	(0.1hr) Sunshine
		Sea Pressure	S. D.	Mean	S. D.	Max.	Min.		Mean	S. D.					
1		10204	56	3	28	45	-37	498	33	15	30	34	2	19	56
2		10197	58	8	36	45	-29	517	36	16	36	35	14	20	56
3		10203	46	8	34	50	-31	460	31	13	36	33	6	21	62
4		10219	53	-8	33	36	-48	441	27	14	32	23	7	21	65
5		10223	49	-6	44	32	-41	497	32	17	30	34	9	18	53
6		10218	53	2	38	45	-38	501	34	18	32	34	18	21	61
7		10213	52	4	34	46	-34	531	36	18	34	38	21	21	52
8		10211	53	2	35	45	-34	488	33	17	35	32	18	24	59
9		10202	42	6	36	48	-38	451	32	18	35	32	2	25	56
10		10209	52	-1	34	38	-37	480	32	19	36	27	15	24	63
11		10220	53	0	33	44	-36	507	33	17	34	36	20	25	54
12		10213	47	-2	36	39	-38	499	32	16	34	34	24	26	57
13		10209	45	-11	40	30	-45	507	32	18	34	31	15	26	63
14		10225	36	-13	37	28	-51	527	32	19	33	42	20	24	52
15		10228	41	-3	34	42	-41	561	36	18	30	41	30	19	60
16		10225	42	1	34	39	-36	564	37	16	32	40	37	24	48
17		10229	46	-1	28	41	-38	556	35	16	28	40	24	24	58
18		10222	50	1	28	39	-34	551	35	13	30	39	7	21	59
19		10224	45	-8	32	36	-45	527	32	15	27	33	1	23	63
20		10220	45	-4	35	37	-39	525	34	19	30	29	13	20	62
21		10220	56	-7	39	37	-45	526	33	16	29	32	15	21	58
22		10206	64	-3	37	32	-42	528	34	17	31	41	15	18	51
23		10204	50	-9	32	32	-47	518	32	17	33	33	8	24	61
24		10215	42	-14	36	26	-49	507	30	17	32	32	11	27	64
25		10222	57	-6	37	35	-47	487	30	14	34	26	6	26	66
26		10227	50	-6	34	33	-45	478	30	13	32	26	1	27	66
27		10213	64	-2	33	42	-41	485	30	11	33	26	5	26	67
28		10212	66	-4	39	38	-43	457	28	10	35	25	3	27	67
29		10213	56	-4	41	35	-44	515	33	16	33	35	15	22	60
30		10230	43	-6	27	37	-44	525	32	17	34	35	26	23	59
31		10223	51	-5	28	34	-42	547	34	15	31	43	37	23	53

2 February

10-DAY NORMALS

090 Sokcho

Elem.	(0.1hPa) Pressure		(0.1) Temperature				(0.1%) Relative Humidity	(0.1hPa) Vapour Pressure		(0.1m/s) Mean Wind Speed	(1/10) Cloud Amount	(0.1mm) Precip.	(0.1mm) Evapor.	(0.1hr) Sunshine	
	Sea Level Pressure	S. D.	Mean	S. D.	Max.	Min.		Mean	S. D.						
10 - Day															
1	1st	10210	28	2	23	43	- 37	486	33	10	34	32	112	213	583
	2nd	10222	23	- 4	20	37	- 40	532	34	10	31	37	191	233	575
	3rd	10217	36	- 6	19	35	- 44	506	31	7	33	32	140	264	672
2	1st	10203	30	4	24	46	- 35	519	34	10	31	34	117	220	629
	2nd	10205	28	17	18	56	- 20	557	40	10	31	41	187	198	605
	3rd	10209	34	24	27	65	- 15	581	44	14	31	45	165	174	480
3	1st	10192	26	38	17	79	- 1	582	47	9	32	45	220	284	616
	2nd	10178	38	58	20	99	16	606	56	10	31	49	149	263	611
	3rd	10173	34	68	19	108	28	633	62	11	30	53	200	298	678
4	1st	10153	27	99	15	143	54	598	71	12	32	47	190	405	698
	2nd	10138	27	112	19	157	69	636	83	14	33	51	212	404	678
	3rd	10123	33	134	21	180	90	611	90	15	34	50	241	518	749
5	1st	10112	28	147	19	194	104	672	108	10	32	54	291	475	681
	2nd	10106	28	158	23	201	118	684	118	13	30	56	350	479	707
	3rd	10095	24	171	16	215	130	711	134	10	27	56	314	501	772
6	1st	10090	27	182	15	222	146	752	154	13	26	63	308	451	634
	2nd	10080	25	190	16	225	159	794	173	12	24	70	393	368	540
	3rd	10065	25	203	19	235	175	811	192	17	23	74	456	327	454
7	1st	10062	23	215	23	246	187	834	213	21	23	76	793	362	447
	2nd	10059	25	227	20	259	199	819	224	20	23	76	841	367	438
	3rd	10070	25	243	24	275	216	813	245	26	23	73	835	386	493
8	1st	10076	25	246	20	279	219	831	256	22	21	67	853	441	524
	2nd	10089	24	239	16	270	211	837	248	21	22	71	820	356	483
	3rd	10091	22	228	13	262	198	811	225	21	23	69	1257	348	511
9	1st	10114	22	214	12	249	182	809	207	20	23	64	989	282	521
	2nd	10138	21	199	13	237	164	777	181	20	24	60	833	335	548
	3rd	10165	19	182	9	222	143	739	155	15	25	52	508	358	583
10	1st	10168	20	170	12	212	129	701	136	16	26	48	261	336	598
	2nd	10178	23	153	13	197	111	652	114	16	27	46	361	306	566
	3rd	10191	23	130	17	175	86	610	94	17	28	37	265	347	720
11	1st	10195	27	113	19	155	69	580	80	17	29	40	337	253	562
	2nd	10206	28	82	19	124	42	553	64	19	30	39	246	266	560
	3rd	10216	30	64	14	105	24	542	55	10	31	37	205	267	563
12	1st	10221	26	23	23	65	- 16	485	38	12	32	31	97	241	596
	2nd	10209	27	16	24	58	- 22	491	36	11	32	32	149	265	637

095 Cheorwon

Elem.	(0.1hPa) Pressure		(0.1) Temperature				(0.1%) Relative Humidity	(0.1hPa) Vapour Pressure		(0.1m/s) Mean Wind Speed	(1/10) Cloud Amount	(0.1mm) Precip.	(0.1mm) Evapor.	(0.1hr) Sunshine	
	Sea Level Pressure	S. D.	Mean	S. D.	Max.	Min.		Mean	S. D.						
10 - Day															
1	1st	10240	23	- 55	30	8	- 113	693	30	8	14	40	90	111	501
	2nd	10249	24	- 54	29	8	- 111	707	31	10	12	41	81	112	501
	3rd	10238	36	- 57	21	6	- 118	668	28	6	15	35	36	140	613
2	1st	10231	28	- 43	23	23	- 107	661	30	8	15	36	33	139	588
	2nd	10224	28	- 21	21	43	- 81	637	34	8	17	38	103	164	605
	3rd	10219	29	0	30	63	- 58	649	41	11	18	46	128	159	470
3	1st	10202	21	12	14	71	- 42	656	44	6	21	48	127	216	549
	2nd	10188	28	36	17	101	- 27	619	48	7	21	47	129	267	587
	3rd	10173	29	53	14	119	- 9	606	53	10	21	51	146	335	652
4	1st	10160	26	84	18	157	10	574	60	10	23	44	116	394	680
	2nd	10136	25	107	21	177	36	591	73	13	24	50	293	420	630
	3rd	10127	29	123	19	192	54	604	83	15	23	49	232	459	649
5	1st	10111	26	150	12	217	86	630	104	11	23	52	336	466	655
	2nd	10107	26	158	10	219	99	674	117	14	21	55	418	453	645
	3rd	10091	18	178	13	238	121	659	130	13	21	52	265	561	778
6	1st	10083	28	197	13	256	141	686	152	13	19	56	319	491	659
	2nd	10068	24	209	13	265	158	714	173	19	19	60	486	483	635
	3rd	10055	19	218	11	266	176	763	197	19	20	70	576	405	490
7	1st	10054	19	228	11	273	190	791	219	22	20	73	985	400	463
	2nd	10056	25	233	13	273	199	816	233	20	20	79	1479	363	367
	3rd	10065	25	244	15	285	210	815	248	26	20	73	1545	417	453
8	1st	10071	23	249	14	296	211	807	252	21	18	65	1427	421	522
	2nd	10078	24	243	15	292	203	795	240	20	18	63	880	440	543
	3rd	10090	19	225	12	275	184	797	216	25	17	64	1075	443	585
9	1st	10106	19	211	12	266	164	781	193	22	17	59	616	383	558
	2nd	10130	23	187	17	249	134	769	164	22	17	55	659	364	591
	3rd	10162	19	163	14	230	106	754	137	14	15	49	210	334	638
10	1st	10171	17	140	17	212	79	750	117	16	14	44	146	306	634
	2nd	10185	25	119	16	192	56	727	100	15	15	42	161	277	609
	3rd	10201	19	90	21	166	25	711	81	15	14	37	140	259	682
11	1st	10207	24	70	21	136	9	701	72	15	17	43	213	201	507
	2nd	10227	24	39	25	99	- 13	709	60	15	16	46	158	168	482
	3rd	10231	26	15	18	77	- 36	724	50	8	15	42	93	150	489
12	1st	10240	29	- 8	22	49	- 60	719	44	10	15	46	91	126	440
	2nd	10250	27	- 30	24	27	- 82	700	36	9	13	39	49		

MONTHLY NORMALS

Sea Level Pressure (0.1hPa)

Station \ Month	1 JAN.	2 FEB.	3 MAR.	4 APR.	5 MAY	6 JUN.	7 JUL.	8 AUG.	9 SEP.	10 OCT.	11 NOV.	12 DEC.	ANNUAL
Sokcho	10216	10205	10181	10138	10104	10078	10064	10085	10139	10179	10206	10215	10151
Cheorwon	10242	10224	10187	10141	10103	10069	10059	10080	10133	10186	10222	10243	10157
Dongducheon	10248	10231	10186	10146	10108	10077	10062	10087	10140	10193	10226	10246	10163
Daegwallyeong	10245	10232	10205	10157	10124	10094	10081	10102	10157	10203	10230	10246	10173
Chuncheon	10246	10226	10191	10146	10109	10075	10063	10083	10139	10191	10226	10244	10162
Baengnyeongdo	10251	10235	10192	10149	10107	10073	10056	10084	10144	10194	10224	10248	10163
Gangneung	10221	10210	10185	10142	10108	10081	10068	10089	10143	10184	10210	10220	10155
Donghae	10209	10200	10171	10135	10100	10075	10063	10087	10136	10177	10202	10214	10147
Seoul	10250	10231	10196	10151	10112	10076	10064	10082	10137	10191	10228	10249	10164
Incheon	10247	10229	10195	10150	10111	10074	10061	10078	10133	10188	10224	10245	10161
Wonju	10246	10229	10192	10149	10110	10075	10066	10085	10138	10193	10228	10247	10163
Ulleungdo	10211	10204	10186	10148	10115	10087	10075	10093	10141	10183	10206	10211	10155
Suwon	10253	10234	10200	10156	10116	10080	10067	10084	10139	10194	10231	10251	10167
Yeongwol	10240	10226	10184	10146	10107	10075	10065	10089	10141	10190	10221	10243	10161
Chungju	10244	10227	10195	10148	10109	10071	10064	10078	10130	10191	10230	10250	10161
Seosan	10250	10233	10200	10155	10115	10078	10064	10081	10135	10191	10228	10249	10165
Uljin	10216	10206	10183	10143	10109	10081	10069	10088	10138	10180	10207	10216	10153
Cheongju	10253	10234	10200	10155	10116	10079	10067	10085	10139	10195	10232	10252	10167
Daejeon	10245	10231	10190	10151	10110	10076	10064	10085	10136	10189	10223	10245	10162
Chupungnyeong	10245	10228	10195	10152	10114	10079	10069	10086	10139	10193	10228	10246	10164
Andong	10243	10226	10195	10152	10116	10082	10072	10091	10142	10194	10228	10244	10165
Pohang	10231	10218	10193	10154	10119	10088	10077	10093	10142	10189	10220	10233	10163
Gunsan	10249	10233	10200	10156	10118	10076	10064	10078	10131	10190	10229	10253	10165
Daegu	10242	10225	10195	10153	10117	10084	10074	10090	10141	10193	10227	10243	10165
Jeonju	10250	10232	10199	10156	10116	10078	10066	10081	10133	10192	10229	10250	10165
Ulsan	10225	10211	10186	10149	10114	10082	10071	10086	10134	10182	10214	10227	10157
Changwon	10225	10213	10185	10148	10113	10078	10072	10081	10126	10181	10216	10235	10156
Gwangju	10244	10227	10195	10153	10114	10075	10064	10077	10128	10187	10224	10245	10161
Busan	10224	10210	10185	10150	10115	10082	10074	10085	10130	10180	10212	10226	10156
Tongyeong	10229	10217	10187	10154	10116	10085	10076	10093	10131	10183	10215	10233	10160
Mokpo	10250	10234	10202	10160	10120	10081	10070	10082	10133	10192	10229	10250	10167
Yeosu	10237	10221	10194	10156	10120	10085	10076	10086	10132	10186	10221	10239	10163
Heungsando	10244	10233	10197	10157	10114	10079	10062	10082	10132	10189	10222	10245	10163
Wando	10244	10228	10197	10157	10119	10081	10071	10083	10130	10188	10224	10245	10164
Jeju	10244	10228	10197	10158	10118	10078	10067	10077	10127	10187	10225	10245	10163
Gosan	10232	10220	10189	10152	10114	10075	10066	10076	10119	10179	10215	10235	10156
Seongsan	10237	10224	10196	10159	10120	10084	10075	10087	10128	10186	10223	10242	10164
Seogwipo	10229	10213	10187	10152	10116	10079	10071	10078	10122	10178	10213	10232	10156
Jinju	10235	10219	10193	10153	10117	10081	10072	10082	10132	10187	10223	10242	10161
Ganghwa	10255	10238	10201	10157	10117	10081	10068	10087	10142	10197	10233	10254	10169
Yangpyeong	10253	10235	10199	10156	10117	10085	10075	10098	10148	10202	10235	10257	10172
Icheon	10244	10230	10187	10149	10108	10075	10064	10087	10138	10190	10222	10247	10162
Inje	10245	10228	10192	10148	10111	10078	10068	10085	10144	10195	10228	10245	10164
Hongcheon	10252	10235	10197	10154	10115	10080	10070	10090	10145	10200	10235	10253	10169
Taebaek	10229	10217	10184	10141	10105	10074	10064	10086	10140	10188	10217	10229	10156
Jecheon	10243	10227	10190	10147	10109	10074	10065	10084	10137	10192	10226	10245	10162
Boeun	10240	10224	10188	10145	10106	10070	10061	10079	10130	10187	10223	10243	10158
Cheonan	10253	10237	10201	10158	10117	10079	10068	10085	10138	10195	10231	10252	10168
Boryeong	10254	10239	10203	10161	10121	10083	10070	10086	10138	10196	10229	10253	10170
Buyeo	10253	10238	10202	10158	10118	10080	10070	10086	10138	10196	10233	10254	10169
Geumsan	10253	10238	10201	10158	10119	10082	10070	10087	10138	10196	10233	10253	10169
Buan	10253	10238	10205	10161	10121	10082	10069	10085	10137	10196	10233	10253	10169
Imsil	10252	10237	10201	10160	10120	10081	10070	10085	10135	10196	10233	10255	10169
Jeongeup	10249	10232	10199	10155	10115	10078	10067	10082	10133	10191	10228	10250	10165
Namwon	10249	10234	10199	10159	10117	10081	10071	10091	10137	10196	10231	10254	10168
Jangsu	10251	10235	10200	10156	10116	10079	10069	10089	10138	10198	10235	10255	10168
Suncheon	10248	10234	10199	10160	10122	10084	10075	10088	10137	10194	10231	10251	10169
Jangheung	10244	10231	10198	10160	10121	10083	10074	10085	10132	10191	10228	10247	10166
Haenam	10248	10235	10201	10162	10121	10082	10073	10085	10133	10192	10230	10251	10168
Goheung	10240	10227	10194	10156	10118	10081	10073	10084	10130	10187	10224	10243	10163
Bongwhoa	10229	10215	10184	10141	10105	10072	10064	10085	10134	10186	10218	10233	10156
Yeongju	10232	10218	10186	10144	10106	10072	10064	10083	10134	10187	10220	10236	10157
Mungyeong	10241	10226	10191	10149	10111	10077	10070	10088	10139	10192	10226	10241	10162
Yeongdeok	10235	10225	10198	10156	10123	10094	10084	10104	10150	10196	10223	10234	10169
Uiseong	10242	10228	10194	10153	10115	10081	10072	10091	10141	10195	10229	10246	10166
Gumi	10243	10229	10195	10153	10116	10082	10074	10092	10142	10195	10229	10245	10166
Yeongcheon	10236	10222	10191	10152	10115	10083	10074	10091	10139	10191	10225	10240	10163
Geochang	10245	10231	10197	10156	10119	10083	10075	10092	10142	10198	10233	10249	10168
Hapcheon	10244	10230	10198	10158	10119	10084	10076	10092	10142	10196	10231	10248	10168
Miryang	10233	10220	10189	10152	10116	10082	10075	10089	10135	10189	10225	10241	10162
Sancheong	10245	10232	10199	10159	10122	10087	10079	10095	10144	10199	10233	10249	10170
Geoje	10224	10214	10181	10150	10111	10080	10070	10086	10129	10178	10209	10226	10155
Namhae	10244	10231	10201	10165	10128	10093	10087	10098	10144	10197	10232	10247	10172

SEASONAL NORMALS

Spring (3 ~ 5)

Station	Elem.	(0.1hPa) Sea Level Pressure	(0.1) Temperature			(0.1%) Relative Humidity	(0.1hPa) Vapour Pressure	(0.1m/s) Mean Wind Speed	(1/10) Cloud Amount	(0.1mm) Precip.	(0.1mm) Evapor.	(0.1hr) Sunshine
			Mean	Max.	Min.							
Sokcho		10141	110	153	68	638	86	31	51	2166	3627	6189
Cheorwon		10144	101	166	37	623	79	22	50	2062	3571	5824
Dongducheon		10147	110	180	49	588	80	20	49	2051		5904
Daegwallyeong		10162	61	116	8	656	66	45	50	2874	3573	6582
Chuncheon		10149	111	180	47	628	85	16	49	2080	3289	6345
Baengnyeongdo		10149	90	129	59	663	80	56	49	1569		6363
Gangneung		10145	123	171	76	572	83	27	52	2246	3700	5994
Donghae		10135	115	160	72	616	86	29	49	1927		6116
Seoul		10153	120	171	75	589	86	27	48	2175	3472	6070
Incheon		10152	109	157	73	659	91	34	47	1985	3339	6557
Wonju		10151	112	180	49	614	84	15	51	2118	3738	6233
Ulleungdo		10149	107	145	74	704	94	42	54	2586	3539	6065
Suwon		10157	113	172	60	648	90	20	47	2070	3331	6346
Yeongwol		10146	107	179	39	592	78	18	50	2078		6137
Chungju		10151	111	182	46	635	86	14	48	1967	3329	6789
Seosan		10157	106	166	52	693	92	28	49	2216	3273	6554
Uljin		10145	115	162	68	654	92	41	48	1891	3813	6705
Cheongju		10157	121	186	62	595	87	21	48	2031	3485	6570
Daejeon		10150	125	186	69	580	87	22	47	2410	3296	6366
Chupungnyeong		10154	114	178	53	591	83	30	48	2042	4257	6399
Andong		10155	117	184	52	598	84	20	47	2046	4128	6438
Pohang		10155	133	183	89	598	94	29	47	2150	3829	6279
Gunsan		10158	112	160	73	724	102	42	49	2056	3265	6150
Daegu		10155	137	198	82	553	89	29	48	1900	4147	6530
Jeonju		10157	124	188	68	632	94	18	48	2231	3205	6155
Ulsan		10150	131	186	81	613	96	23	49	2650	3492	6101
Changwon		10149	137	187	95	618	102	23	47	3464		6052
Gwangju		10154	128	190	75	637	98	23	52	2381	3526	6278
Busan		10150	133	178	97	634	102	39	50	3708	3199	6247
Tongyeong		10152	132	178	92	652	104	27	48	3915		6243
Mokpo		10161	121	174	81	694	103	41	51	2185	3142	6053
Yeosu		10157	129	169	95	639	100	40	48	3388	3828	6390
Heuksando		10156	105	141	79	767	102	55	51	2324		5792
Wando		10158	124	168	86	690	104	37	52	3502	3689	5910
Jeju		10158	137	173	103	673	110	34	57	2745	3322	5652
Gosan		10151	131	163	103	741	118	68	59	2724		5649
Seongsan		10159	135	176	93	677	110	33	56	4699		5683
Seogwipo		10152	146	183	112	656	115	30	56	5119	3318	5639
Jinju		10154	124	193	60	662	98	21	52	3132	3416	6111
Ganghwa		10159	103	157	50	650	86	20	44	2154	3018	6930
Yangpyeong		10157	114	183	50	618	86	14		2126		6505
Icheon		10148	115	185	50	585	82	17		2151		6246
Inje		10150	99	170	34	618	78	22	48	1967	3575	6280
Hongcheon		10155	103	182	33	614	78	12	49	2170	3446	6352
Taebaek		10143	82	141	25	595	67	20	49	2285		6439
Jecheon		10149	100	172	31	620	78	17	49	2342	3156	6404
Boeun		10146	106	178	36	630	83	16	47	2164	3600	6960
Cheonan		10158	111	178	50	646	89	19	45	1931	3269	6993
Boryeong		10162	108	164	56	695	95	21	50	2041	3481	7045
Buyeo		10159	114	185	51	671	94	14	47	2314	3327	7252
Geumsan		10159	111	184	41	640	88	14	43	2177	3315	6883
Buan		10162	112	172	59	723	101	19	46	2116	3600	7107
Imsil		10160	103	179	34	666	86	16	55	2181		6728
Jeongeup		10156	120	187	61	648	94	13	49	2250	3030	6570
Namwon		10159	116	193	44	645	90	17	49	2350		6487
Jangsu		10157	100	170	33	668	84	20	50	2577		6371
Suncheon		10161	118	193	52	651	93	15	54	2737	3193	5887
Jangheung		10160	118	184	55	681	98	21	51	2997	3353	6141
Haenam		10161	119	179	61	699	102	24	52	2684	3304	6679
Goheung		10156	124	186	63	654	98	16	50	3408	3471	6647
Bongwha		10143	95	174	20	629	76	14	47	2340		6516
Yeongju		10145	111	178	45	588	80	25	48	2471	4188	7167
Mungyeong		10150	116	182	53	568	81	19	45	2312	4096	6956
Yeongdeok		10159	118	175	62	624	88	26	51	1925	4005	7143
Uiseong		10154	110	192	32	615	82	13	48	1857	3759	6583
Gumi		10155	124	192	58	580	85	19	48	1886	3996	6573
Yeongcheon		10153	119	190	50	594	84	20	50	1964	3453	6582
Geochang		10157	113	189	43	629	87	15	47	2254	3703	6935
Hapcheon		10159	126	199	58	608	90	15	50	2246	3678	6512
Miryang		10152	127	198	58	624	93	16	50	2494	3446	6538
Sancheong		10160	122	193	58	606	89	17	50	2703	3310	6634
Geoje		10147	130	181	80	603	94	19	51	5258		6503
Namhae		10165	130	187	79	624	98	19	51	4514	3179	6754

ANNUAL NORMALS

Station	Elem.	(0.1hPa) Sea Level Pressure	(0.1) Temperature			(0.1%) Relative Humidity	(0.1hPa) Vapour Pressure	(0.1‰) Mean Wind Speed	(1/10) Cloud Amount	(0.1mm) Precip.	(0.1mm) Evapor.	(0.1hr) Sunshine
			Mean	Max.	Min.							
Sokcho	10151	122	162	85	657	114	28	51	14022	11847	21299	
Cheorwon	10157	102	162	47	704	109	18	51	13912	11068	20501	
Dongducheon	10163	112	175	60	665	111	16	50	15029		20506	
Daegwallyeong	10173	66	115	20	733	91	43	53	18980	10715	21948	
Chuncheon	10162	111	172	59	710	115	13	52	13473	10222	21242	
Baengnyeongdo	10163	111	145	86	699	114	49	54	8256		20839	
Gangneung	10155	131	175	92	614	113	26	52	14645	11897	21063	
Donghae	10147	126	168	87	649	116	26	49	12789		21490	
Seoul	10164	125	170	86	644	116	23	49	14505	10937	20660	
Incheon	10161	121	164	87	686	120	29	48	12344	11188	23149	
Wonju	10163	113	174	60	693	114	11	52	13436	11582	21246	
Ulleungdo	10155	124	158	98	743	125	37	61	13834	11176	18561	
Suwon	10167	120	172	75	696	120	17	49	13123	10844	21628	
Yeongwol	10161	108	174	53	681	109	15	53	12241		20909	
Chungju	10161	112	177	59	719	116	12	52	12127	10439	23103	
Seosan	10165	119	173	72	741	124	24	52	12857	10124	21788	
Uljin	10153	126	172	85	678	120	38	48	11190	12852	23732	
Cheongju	10167	125	182	76	677	118	18	51	12391	10938	22126	
Daejeon	10162	130	184	83	667	121	19	49	14587	9955	21387	
Chupungnyeong	10164	117	173	67	676	114	27	51	11871	13206	21764	
Andong	10165	119	180	66	679	115	17	49	10664	12537	21936	
Pohang	10163	142	187	104	635	125	28	47	11520	12714	22296	
Gunsan	10165	128	171	92	749	133	38	51	12020	11568	21117	
Daegu	10165	141	195	95	616	119	27	48	10644	13057	22660	
Jeonju	10165	133	189	86	694	126	16	51	13132	10415	20545	
Ulsan	10157	141	192	98	642	125	21	48	12771	11832	21888	
Changwon	10156	149	194	111	638	130	22	45	15454		21450	
Gwangju	10161	138	191	95	695	130	21	54	13910	11524	21363	
Busan	10156	147	189	113	647	131	37	48	15191	11512	23273	
Tongyeong	10160	147	192	110	672	134	26	46	14508		23104	
Mokpo	10167	139	186	103	724	135	39	53	11636	10902	21354	
Yeosu	10163	143	180	113	664	130	41	47	14390	13776	23313	
Heuksando	10163	133	162	112	774	138	56	56	11073		19117	
Wando	10164	141	181	108	725	137	36	53	15327	13470	20667	
Jeju	10163	158	189	129	696	143	35	61	14976	12294	18541	
Gosan	10156	156	184	131	745	151	70	61	11428		19892	
Seongsan	10164	154	192	119	717	145	32	60	19668		19447	
Seogwipo	10156	166	202	135	687	149	29	57	19230	12071	20547	
Jinju	10161	131	195	76	709	127	18	51	15128	11261	21845	
Ganghwa	10169	111	162	63	702	116	17	45	13467	9568	24315	
Yangpyeong	10172	115	177	63	705	117	12		14382		22649	
Icheon	10162	116	178	62	667	112	13		13708		21137	
Inje	10164	101	165	47	696	106	18	51	12106	10702	21281	
Hongcheon	10169	103	175	47	695	107	10	52	14054	10552	21637	
Taebaek	10156	87	142	38	670	93	17	51	13243		21446	
Jecheon	10162	102	168	44	698	106	14	51	13878	9574	22046	
Boeun	10158	109	174	52	703	111	13	50	12974	10961	23682	
Cheonan	10168	118	177	65	717	119	16	49	12265	10438	24127	
Boryeong	10170	124	175	79	733	127	19	52	12443	11269	24425	
Buyeo	10169	122	186	69	733	125	12	49	13492	10522	25186	
Geumsan	10169	116	182	59	712	116	11	48	12968	10534	23184	
Buan	10169	126	180	80	760	132	16	51	12504	11969	24729	
Imsil	10169	112	180	55	733	115	13	58	13519		22830	
Jeongeup	10165	131	188	82	716	126	11	53	13173	10178	22290	
Namwon	10168	123	192	64	717	122	13	52	13804		21993	
Jangsu	10168	105	170	49	739	112	17	55	14643		20920	
Suncheon	10169	126	194	73	711	123	12	58	15313	10319	19449	
Jangheung	10166	130	190	78	722	128	18	53	15056	10844	20959	
Haenam	10168	134	188	85	734	133	22	53	13254	11186	23561	
Goheung	10163	136	193	84	697	128	15	49	14534	12053	23703	
Bongwhoa	10156	99	172	36	693	102	12	48	12179		22236	
Yeongju	10157	113	174	57	666	109	22	48	12909	12849	24615	
Mungyeong	10162	118	176	66	649	111	16	47	12598	12819	23734	
Yeongdeok	10169	128	180	81	657	117	24	49	10727	12840	25505	
Uiseong	10166	112	188	48	686	111	11	49	10317	11876	22312	
Gumi	10166	125	187	71	658	115	16	49	10725	12086	22296	
Yeongcheon	10163	124	188	67	651	113	18	50	10468	10475	22489	
Geochang	10168	117	187	58	695	115	12	48	13168	11633	23737	
Hapcheon	10168	130	198	73	676	119	12	51	12756	11585	22777	
Miryang	10162	133	199	75	677	123	14	50	12294	11274	23023	
Sancheong	10170	128	193	76	666	118	15	51	15566	10594	22444	
Geoje	10155	142	189	99	637	123	17		20073		22049	
Namhae	10172	141	193	98	664	127	17	49	18394	10642	24208	

SEASONAL EXTREMES

< 0 Daily Maximum Temperature < 0

Classification Station							가 Longest Period		
	First Day			Last Day			Start	End	Number of Days
	Normals	가 Earliest	가 Latest	Normals	가 Earliest	가 Latest			
	Mon. Date	Year Mon. Date	Year Mon. Date	Mon. Date	Year Mon. Date	Year Mon. Date	Year Mon. Date	Year Mon. Date	
Sokcho	12.25	1979.11.13	2005.01.31	02.03	2006.12.28	1969.03.12	1976.12.26	1977.01.05	11
Cheorwon	12.03	2008.11.18	1988.01.01	02.19	2002.01.28	2005.03.12	2010.01.03	2010.01.16	14
Dongducheon	12.13	1999.11.26	1998.02.08	02.12	2002.01.23	2001.03.08	2001.01.10	2001.01.17	8
Daegwallyeong	11.21	1981.10.23	2004.12.22	03.21	2002.02.18	1980.04.14	1983.12.22	1984.02.10	51
Chuncheon	12.09	1979.11.13	1999.01.07	02.13	1992.01.19	1974.03.12	2009.12.31	2010.01.14	15
Baengnyeongdo	12.12	2008.11.18	2007.12.30	03.01	2010.02.16	2006.03.12	2009.12.31	2010.01.16	17
Gangneung	12.30	1970.11.29	1972.02.29	01.31	2007.12.30	1971.03.10	1980.01.31	1980.02.08	9
Donghae	12.31	2008.12.06	2005.02.01	01.25	2007.12.30	2005.03.05	2001.01.12	2001.01.16	5
Seoul	12.08	1912.11.08	1959.01.01	02.16	1992.01.19	1962.03.16	1917.12.15	1918.01.09	26
Incheon	12.11	1912.11.08	1999.01.07	02.15	1992.01.19	1962.03.16	1940.01.14	1940.02.08	26
Wonju	12.10	1979.11.13	2007.12.30	02.12	1992.01.19	1976.03.19	1980.12.26	1981.01.08	14
Ulleungdo	12.28	1981.12.02	1972.02.20	02.10	2007.12.31	1958.03.29	1940.01.17	1940.01.31	15
Suwon	12.13	1979.11.13	1964.01.01	02.15	1992.01.19	2005.03.12	1977.01.27	1977.02.07	12
Yeongwol	12.15	1996.12.01	1995.01.10	02.17	2002.01.28	2005.03.12	2009.12.31	2010.01.09	10
Chungju	12.10	1979.11.13	1973.01.02	02.11	1976.01.23	2005.03.12	2009.12.31	2010.01.14	15
Seosan	12.18	1970.11.29	1990.01.13	02.13	1991.12.29	2005.03.12	1977.01.27	1977.02.07	12
Uljin	01.13	1997.12.10	1987.02.27	01.31	2002.01.02	1977.03.05	1990.01.23	1990.01.26	4
Cheongju	12.15	1979.11.13	1999.01.08	02.08	2006.12.29	1974.03.12	1977.01.27	1977.02.07	12
Daejeon	12.20	1979.11.13	1978.01.16	01.30	2006.12.29	1974.03.12	1976.12.26	1977.01.05	11
Chupungnyeong	12.12	1979.11.13	1954.01.23	02.18	1959.01.20	1962.03.16	1963.01.19	1963.02.05	18
Andong	12.19	1996.12.01	1994.01.19	02.07	2006.12.28	2001.03.08	2001.01.12	2001.01.17	6
Pohang	01.09	1996.12.01	1991.02.22	01.22	1996.12.01	1977.03.04	1976.01.20	1976.01.23	4
Gunsan	12.24	1970.11.30	1979.02.01	02.09	1991.12.29	1971.03.10	2004.01.21	2004.01.26	6
Daegu	01.04	1970.11.30	1944.02.15	01.22	1996.12.01	1933.03.06	1940.01.18	1940.01.30	13
Jeonju	12.24	1966.11.21	1978.01.30	02.03	1991.12.29	1921.03.14	1940.01.17	1940.01.31	15
Ulsan	01.13	1996.12.01	1973.02.24	01.22	1996.12.01	1977.03.04	1976.12.31	1977.01.04	5
Changwon	01.20	1985.12.10	1991.02.22	01.25	1986.01.11	1991.02.23	2001.01.14	2001.01.16	3
Gwangju	01.04	1996.12.01	1972.02.29	02.03	2002.01.02	2001.03.08	1940.01.17	1940.01.31	15
Busan	01.16	1952.12.03	1991.02.22	01.23	1931.12.13	1977.03.04	1934.01.21	1934.01.25	5
Tongyeong	01.24	1973.12.24	1981.02.25	01.24	1973.12.24	1977.03.04	1990.01.23	1990.01.24	2
Mokpo	01.12	1926.12.08	1991.02.23	01.31	1913.12.18	1913.03.07	1940.01.23	1940.01.31	9
Yeosu	01.18	1956.12.09	1991.02.23	02.01	1986.01.10	1977.03.04	1977.01.27	1977.01.31	5
Heuksando	01.20	2003.01.04	2006.02.04	01.29	2010.01.13	2005.03.05	2001.01.14	2001.01.16	3
Wando	01.19	1973.12.24	1991.02.23	01.29	1986.01.05	1977.03.04	1977.01.27	1977.01.31	5
Jeju	01.31	1938.01.08	1981.02.26	01.31	1938.01.08	1981.02.26	1977.01.29	1977.01.31	3
Gosan	-	-	-	-	-	-	-	-	-
Seongsan	01.15	1976.12.27	1981.02.26	01.15	2001.01.15	1981.02.26	2001.01.15	2001.01.15	1
Seogwipo	-	1963.01.23	1981.02.26	-	1963.01.25	1981.02.26	1981.02.26	1981.02.26	1
Jinju	01.19	1984.12.24	1991.02.23	01.26	1973.12.24	1977.03.04	2001.01.14	2001.01.16	3
Ganghwa	12.07	1979.11.13	2007.12.30	02.17	1992.01.19	2006.03.12	1984.01.15	1984.01.30	16
Yangpyeong	12.12	1979.11.13	2007.12.30	02.12	2002.01.23	1974.03.12	1980.12.26	1981.01.23	29
Icheon	12.16	1979.11.13	1999.01.07	02.10	1992.01.18	1978.03.12	1984.01.16	1984.01.30	15
Inje	12.08	1979.11.13	1972.01.26	02.17	1976.01.24	2005.03.12	1984.01.16	1984.01.30	15
Hongcheon	12.08	1979.11.13	1973.01.03	02.16	1976.01.23	2005.03.12	1980.12.26	1981.01.08	14
Taebaek	12.02	1990.11.10	2004.12.23	03.08	1990.02.04	1995.03.25	1996.01.30	1996.02.10	12
Jecheon	12.08	1979.11.13	2007.12.30	02.17	1990.01.27	1976.03.19	1980.12.26	1981.01.08	14
Boeun	12.13	1979.11.13	1999.01.08	02.16	2002.01.23	1987.03.25	1977.01.27	1977.02.07	12
Cheonan	12.12	1979.11.13	1973.01.03	02.15	2002.01.23	1974.03.12	1977.01.27	1977.02.07	12
Boryeong	12.23	1979.11.13	1973.02.07	02.06	1991.12.28	1977.03.05	1982.01.12	1982.01.19	8
Buyeo	12.20	1979.11.13	2005.01.30	02.04	1991.12.28	1974.03.12	1976.12.26	1977.01.05	11
Geumsan	12.15	1979.11.13	1999.01.07	02.06	2006.12.29	1974.03.12	1977.01.27	1977.02.07	12
Buan	12.23	1979.11.13	1973.02.07	02.05	2006.12.29	1977.03.04	1984.01.25	1984.01.30	6
Imsil	12.16	1979.11.13	1972.03.01	02.11	1971.01.05	1974.03.12	1977.01.27	1977.02.07	12
Jeongeup	12.24	1979.11.13	1972.03.01	02.08	2006.12.29	2005.03.12	1981.01.02	1981.01.07	6
Namwon	12.25	1996.12.01	1979.02.01	01.28	1994.12.16	2001.03.08	1976.12.31	1977.01.05	6
Jangsu	12.13	1992.11.26	1988.01.09	02.18	2009.01.25	2006.03.13	2005.12.11	2005.12.18	8
Suncheon	01.09	1974.12.04	1999.02.03	01.31	1991.12.12	1977.03.04	1980.02.04	1980.02.09	6
Jangheung	01.12	1985.12.17	1991.02.22	02.01	1986.01.05	1977.03.04	1977.01.27	1977.01.31	5
Haenam	01.14	1985.12.15	1991.02.23	01.30	1986.01.05	1977.03.04	1980.02.05	1980.02.09	5
Goheung	01.19	1973.12.24	1981.02.26	01.26	1986.01.05	1977.03.04	1977.01.27	1977.01.30	4
Bongwha	12.17	1992.11.26	1994.01.19	02.11	1992.01.18	2005.03.12	2009.12.31	2010.01.09	10
Yeongju	12.13	1979.11.13	1999.01.08	02.17	1976.01.23	1987.03.25	1976.12.26	1977.01.05	11
Mungyeong	12.17	1979.11.13	1973.02.07	02.11	1992.01.18	1974.03.12	1976.12.26	1977.01.05	11
Yeongdeok	01.06	2008.12.06	1973.02.24	01.28	2008.01.01	1977.03.04	1980.02.03	1980.02.08	6
Uiseong	12.24	1996.12.01	2004.01.21	01.31	1991.12.29	1977.03.04	1976.12.26	1977.01.05	11
Gumi	12.24	1979.11.13	1973.02.07	02.02	1991.12.29	1977.03.05	1980.02.04	1980.02.09	6
Yeongcheon	12.25	1996.12.01	2005.02.01	01.27	1974.12.04	1977.03.04	1976.12.31	1977.01.05	6
Geochang	12.30	1996.12.01	2005.02.01	02.02	1991.12.29	1974.03.12	1976.12.26	1977.01.05	11
Hapcheon	01.16	1985.12.15	1991.02.22	01.26	1986.01.05	1977.03.04	1977.01.27	1977.01.31	5
Miryang	01.15	1985.12.15	1991.02.22	01.25	1986.01.10	1977.03.04	1990.01.23	1990.01.26	4
Sancheong	01.13	1980.12.13	1973.02.24	02.01	2002.01.02	1977.03.04	1981.01.02	1981.01.06	5
Geoje	01.24	1985.12.17	1981.02.25	01.25	1973.12.24	1977.03.04	2001.01.14	2001.01.16	3
Namhae	01.23	1973.12.24	1991.02.23	01.27	1973.12.24	1981.02.26	2001.01.14	2001.01.16	3