



MONTHLY CLIMATE REVIEW OVER KOREA (total 5 pages)

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September 2014 Monthly Climate Summary

- ◇ The nationwide mean temperature (20.9 °C) in September 2014 was 0.4 °C above normal.
 - ◇ The nationally-averaged precipitation (119.6 mm) was 73.3 % of normal.
- Climate features and long-term trends in september 2014 were analyzed with the data collected at the 45 meteorological stations throughout Korea (national average) from 1973 to 2014 (1908-2014 for Seoul).
- ※ Normal : Average value of climatic element data collected from 1981 to 2010
- **The climatic characteristics in September 2014**
- o Korea (as a whole),
 - The mean temperature (20.9 °C), the mean maximum temperature (26.5 °C) and the mean minimum temperature (16.4 °C) were 0.4 °C, 0.6 °C, 0.3 °C above normal, respectively.
 - The nationally-averaged precipitation was 119.6 mm, which was 73.3 % of normal. The number of rainy days was 7.1, which was 1.9 days less than normal.
 - The total number of hours of sunshine was 201.1, which was 117.2 % of normal.
 - o Seoul,
 - The mean temperature (22.1 °C), the mean maximum temperature (27.0 °C), the mean minimum temperature (18.0 °C) were 0.9 °C, 1.2 °C, 0.8 °C above normal, respectively.
 - The amount of precipitation was 88.1 mm, which was 52.0 % of normal.
 - The number of rainy days was 7.0, which was 2.1 days less than normal.
 - The total number of hours of sunshine was 214.3, which was 121.6 % of normal.

□ **Long-term¹⁾ trend in September 2014 climate**

o Korea (as a whole),

- The national mean temperatures in September in the 2000s (2001-2010) was 0.8 °C more than that of in the 1970s (1973-1980).
- The nationally-averaged precipitation in September in the 2000s was 58.5 mm more than that of in the 1970s.
- The number of rainy days in September in the 2000s was 1.8 days more than that of in the 1970s.
- The total sunshine hours in September in the 2000s was 29.4 hours less than that of in the 1970s.

o Seoul,

- The mean temperatures in September in the 2000s (2001-2010) was 1.2 °C above that of in the 1970s (1971-1980).
- The precipitation in September in the 2000s was 94.9 mm more than that of in the 1970s.
- The number of rainy days in September in the 2000s was 1.3 days more than that of in the 1970s.
- The total sunshine hours in September in the 2000s was 25.1 hours less than that of in the 1970s.

1) 2000s : 2001~2010 / 1970s of Korea(Seoul) : 1973~1980(1971~1980)

Appendix 1 Climate features of September 2014 (Nationwide)

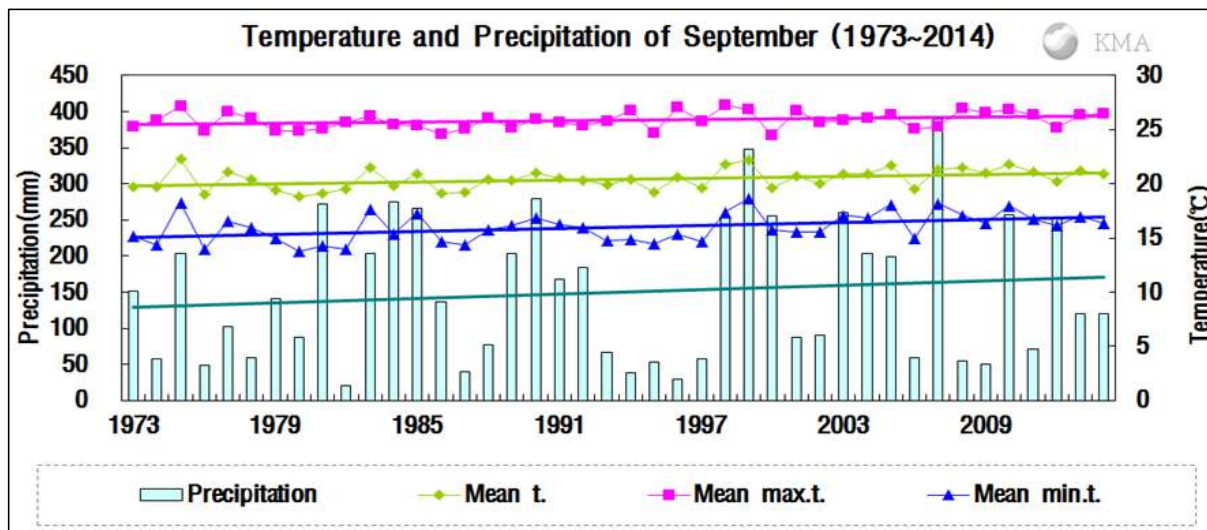


Fig 1. Temperatures (mean, mean maximum and mean minimum) and precipitation in South Korea during September (1973–2014).

□ The nationwide average value of meteorological element during September (1973-2014)

Elements (whole country)	Sep. 2014(a)	Sep. 2013(b)	Normals of Sep. (1981-2010)(c)	a-b	a-c	Rank since 1973 (within 5th)
Mean temperature (°C)	20.9	21.2	20.5	-0.3	0.4	
Mean maximum temp. (°C)	26.5	26.4	25.9	0.1	0.6	
Mean minimum temp. (°C)	16.4	17.0	16.1	-0.6	0.3	
Precipitation (mm)	119.6	120.8	162.8	-1.2(117.6%)	-43.2(73.3%)	
Days of rain (day)	7.1	10.1	9.0	-3.0	-1.9	
Sunshine duration (hour)	201.1	189.1	171.6	12.0(106.3%)	29.5(117.2%)	
Mean cloud amount (1/10)	5.3	5.4	5.6	-0.1	-0.3	
Days of daily temperature range greater than 10°C(day)	15.6	13.8	14.7	1.8	0.9	

□ The nationwide average value of meteorological element during September in each decade (1973-2010)

Year	Mean temp. (°C)	Mean max. temp.(°C)	Mean min. temp.(°C)	Prep. (mm)	Days of rain (day)	Sunshine duration (hour)	Mean cloud amount (1/10)	Days of daily temperature range greater than 10°C(day)
1973-1980(a)	20.1	25.7	15.4	106.6	8.3	185.6	5.5	16.1
1981-1990(b)	20.1	25.5	15.7	177.6	9.0	176.5	5.7	14.8
1991-2000(c)	20.4	26.0	15.9	145.7	7.9	182.1	5.2	15.8
2001-2010(d)	20.9	26.2	16.8	165.1	10.1	156.2	5.8	13.3
2014(e)	20.9	26.5	16.4	119.6	7.1	201.1	5.3	15.6
d-a	0.8	0.5	1.4	58.5	1.8	-29.4	0.3	-2.8
d-b	0.8	0.7	1.1	-12.5	1.1	-20.3	0.1	-1.5
d-c	0.5	0.2	0.9	19.4	2.2	-25.9	0.6	-2.5
e-d	0.0	0.3	-0.4	-45.5	-3.0	44.9	-0.5	2.3

Appendix 2 Climate features of September 2014 (Seoul)

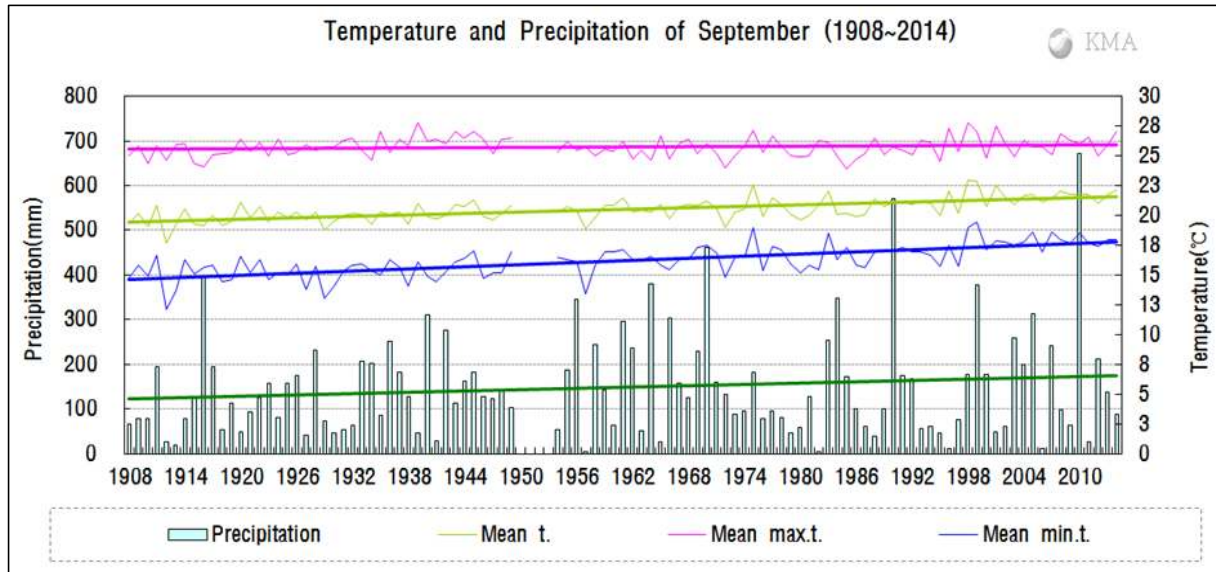


Fig 2. Temperatures (mean, mean maximum and mean minimum) and precipitation in Seoul during September (1908-2014).

□ The average value of meteorological element during September in Seoul (1908-2014)

Elements (Seoul)	Sep. 2014(a)	Sep. 2013(b)	Normals of Sep. (1981-2010)(c)	a-b	a-c	Rank since 1908 (within 5th)
Mean temperature (°C)	22.1	21.8	21.2	0.3	0.9	the fifth highest
Mean maximum temp. (°C)	27.0	25.9	25.8	1.1	1.2	
Mean minimum temp. (°C)	18.0	18.0	17.2	0.0	0.8	
Amount of precipitation (mm)	88.1	138.5	169.3	-50.4(63.6%)	-81.2(52.0%)	
Days of rain (day)	7.0	9.0	9.1	-2.0	-2.1	
Sunshine duration (hour)	214.3	191.0	176.2	23.3(112.2%)	38.1(121.6%)	
Mean cloud amount (1/10)	4.9	5.5	5.3	-0.6	-0.4	
Days of daily temperature range greater than 10°C(day)	12.0	7.0	10.2	5.0	1.8	

□ The average value of meteorological element during September in Seoul in each decade (1911-2010)

Year	Mean temp. (°C)	Mean max. temp. (°C)	Mean min. temp. (°C)	Prep. (mm)	Days of rain (day)	Sunshine duration (hour)	Mean cloud amount (1/10)	Days of daily temperature range greater than 10°C (day)
1911-1920(a)	19.7	25.3	15.1	125.6	10.1	211.2	6.0	16.3
1921-1930	19.9	25.6	14.9	118.1	8.5	217.8	5.4	18.4
1931-1940(b)	20.1	26.1	15.5	153.3	8.8	220.9	5.7	19.0
1941-1949	20.3	26.4	15.7	140.2	10.3	207.5	5.8	18.7
1954-1960	20.2	25.5	16.0	148.7	9.6	183.2	6.0	14.4
1961-1970	20.7	25.6	16.5	226.6	10.7	172.2	5.8	12.8
1971-1980(c)	20.5	25.5	16.5	102.0	8.6	174.6	5.5	12.0
1981-1990	20.6	25.4	16.6	178.0	8.1	192.0	5.6	11.3
1991-2000	21.3	26.0	17.2	132.9	9.4	187.0	4.9	11.6
2001-2010(d)	21.7	26.1	17.9	196.9	9.9	149.5	5.4	7.8
2014(e)	22.1	27.0	18.0	88.1	7.0	214.3	4.9	12.0
d-a	2.0	0.8	2.8	71.3	-0.2	-61.7	-0.6	-8.5
d-b	1.6	0.0	2.4	43.6	1.1	-71.4	-0.3	-11.2
d-c	1.2	0.6	1.4	94.9	1.3	-25.1	-0.1	-4.2
e-d	0.4	0.9	0.1	-108.8	-2.9	64.8	-0.5	4.2

Appendix 3 Meteorological observation network

