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Korea Meteorological
Administration

MONTHLY CLIMATE REVIEW OVER KOREA (total 4 pages)

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June 2016 Climate Summary

- ◇ The nationwide mean temperature (22.3°C) in June 2016 was 1.1°C above normal.
- ◇ The nationwide-average of precipitation (67.4 mm) was 40.6% of normal.

- Climate features and long-term trends in June 2016 were analyzed 45 meteorological stations throughout Korea (national average) during 1973-2016 (1908-2016 for Seoul).

※ Normal: Average value of climatic element data collected from 1981 to 2010

□ The climatic characteristics in June 2016

o Korea (as a whole),

- The mean temperature (22.3°C), the mean maximum temperature (27.2°C) and the mean minimum temperature (18.1°C) were 1.1°C, 0.7°C, 1.4°C above normal, respectively.
- A nationally-averaged precipitation was 67.4 mm, which was 40.6% of normal. The number of rainy days was 9.4, which was 0.3 days less than normal.
- The total number of hours of sunshine was 193.4, which was 106.6% of normal.

o Seoul,

- The mean temperature (23.6°C), the mean maximum temperature (28.7°C) and the mean minimum temperature (19.5°C) were 1.4°C, 1.6°C, 1.3°C above normal, respectively.
- The amount of precipitation was 54.4 mm, which was 40.8% of normal.
- The number of rainy days was 8.0, which was 1.9 days less than normal.
- The total number of hours of sunshine was 229.7, which was 126.2% of normal.

□ **Long-term¹⁾ trend in June 2016 climate**

o Korea (as a whole),

- The national mean temperatures in June during the 2000s (2001-2010) was 0.7°C above that of in the 1970s (1973-1980).
- The nationwide-average of precipitation in June during the 2000s was 15.7 mm less than that of in the 1970s.
- The number of rainy days in June during the 2000s was 1.4 days less than that of in the 1970s.
- The total sunshine hours in June during the 2000s was 12.5 hours less than that of in the 1970s.

o Seoul,

- The mean temperatures in June during the 2000s (2001-2010) was 0.9°C above that of in the 1970s (1971-1980).
- The precipitation in June during the 2000s was 0.1 mm less than that of in the 1970s.
- The number of rainy days in June during the 2000s was 0.3 days less than that of in the 1970s.
- The total sunshine hours in June during the 2000s was 17.4 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 June 2016 (Nationwide)

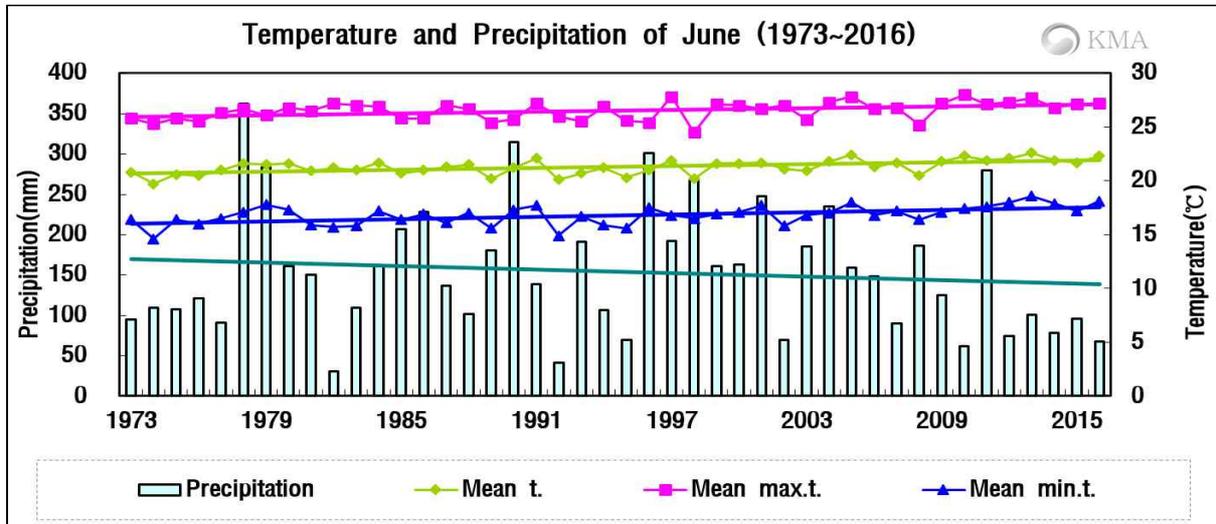


Fig 1. Temperatures (mean, mean maximum and mean minimum) and precipitation in South Korea during June (1973-2016).

The nationwide average value of meteorological element during June (1973-2016)

Elements (whole country)	June 2016(a)	June 2015(b)	Normals of June (1981-2010)(c)	a-b	a-c	Rank since 1973 (within 5th)
Mean temperature (°C)	22.3	21.7	21.2	0.6	1.1	the 3rd highest
Mean maximum temp. (°C)	27.2	27.1	26.5	0.1	0.7	
Mean minimum temp. (°C)	18.1	17.2	16.7	0.9	1.4	the 2nd highest
Precipitation (mm)	67.4	95.5	158.6	-28.1 (77.6%)	-91.2 (40.6%)	the 4th lowest
Days of rain (day)	9.4	9.7	9.7	-0.3	-0.3	
Sunshine duration (hour)	193.4	198.0	181.4	-4.6 (97.7%)	12.0 (106.6%)	
Mean cloud amount (1/10)	6.2	6.6	6.2	-0.4	0.0	
Precipitation more than 80mm/day(day)	0.0	0.1	0.3	-0.1	-0.3	
Days of maximum temperature more than 33°C(day)	0.2	0.6	0.6	-0.4	-0.4	

The nationwide average value of meteorological element during June 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)	Precipitation more than 80mm/day (day)	Days of maximum temperature more than 33°C(day)
1973-1980(a)	20.9	26.0	16.5	166.4	11.2	185.6	6.6	0.3	0.3
1981-1990(b)	21.1	26.4	16.4	162.0	9.6	193.6	6.3	0.3	0.5
1991-2000(c)	21.1	26.3	16.6	163.2	9.8	177.5	6.2	0.4	0.6
2001-2010(d)	21.6	26.9	17.0	150.7	9.8	173.1	6.1	0.3	0.7
2016(e)	22.3	27.2	18.1	67.4	9.4	193.4	6.2	0.0	0.2
d-a	0.7	0.9	0.5	-15.7	-1.4	-12.5	-0.5	0.0	0.4
d-b	0.5	0.5	0.6	-11.3	0.2	-20.5	-0.2	0.0	0.2
d-c	0.5	0.6	0.4	-12.5	0.0	-4.4	-0.1	-0.1	0.1
e-d	0.7	0.3	1.1	-83.3	-0.4	20.3	0.1	-0.3	-0.5

Appendix 2 Climate features of June 2016 (Seoul)

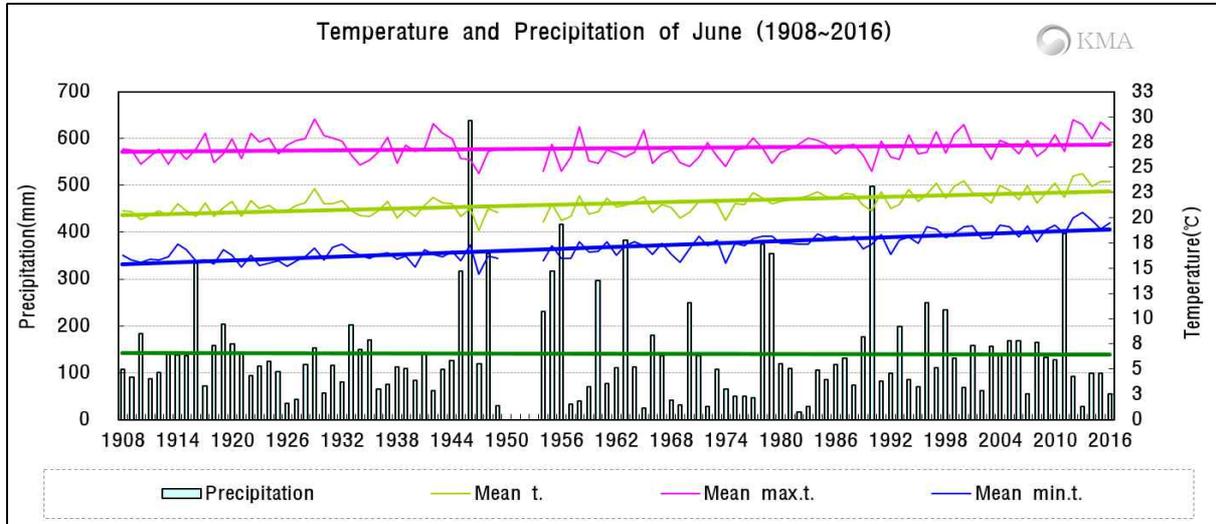


Fig 2. Temperatures (mean, mean maximum and mean minimum) and precipitation in Seoul during June (1908-2016).

The average value of meteorological element during June in Seoul(1908-2016)

Elements (Seoul)	June 2016(a)	June 2015(b)	Normals of June (1981-2010)(c)	a-b	a-c	Rank since 1908 (within 5th)
Mean temperature (°C)	23.6	23.6	22.2	0.0	1.4	the 4th highest
Mean maximum temp. (°C)	28.7	29.5	27.1	-0.8	1.6	
Mean minimum temp. (°C)	19.5	18.9	18.2	0.6	1.3	the 4th highest
Precipitation (mm)	54.4	99.0	133.2	-44.6 (54.9%)	-78.8 (40.8%)	
Days of rain (day)	8.0	11.0	9.9	-3.0	-1.9	
Sunshine duration (hour)	229.7	258.1	182.0	-28.4 (89.0%)	47.7 (126.2%)	
Mean cloud amount (1/10)	5.3	5.6	6.1	-0.3	-0.8	
Precipitation more than 80mm/day(day)	0.0	0.0	0.2	0.0	-0.2	
Days of maximum temperature more than 33°C(day)	0.0	1.0	0.4	-1.0	-0.4	the 5th highest

The average value of meteorological element during June 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)	Precipitation more than 80mm/day (day)	Days of maximum temperature more than 33°C (day)
1911-1920(a)	20.8	26.6	16.2	152.7	11.7	228.3	7.0	0.2	0.8
1921-1930	21.2	27.7	15.8	98.3	8.1	258.8	6.3	0.2	1.2
1931-1940(b)	20.7	26.6	16.4	116.0	10.0	221.6	6.8	0.0	0.1
1941-1949	20.8	26.9	16.2	210.3	11.4	233.7	6.7	0.7	1.0
1954-1960	20.6	26.1	16.5	200.5	12.0	179.8	6.9	0.4	1.3
1961-1970	21.1	26.3	16.9	134.6	11.1	193.8	6.6	0.3	0.5
1971-1980(c)	21.5	26.5	17.5	133.0	10.9	171.8	6.6	0.1	0.3
1981-1990	21.9	26.9	17.7	133.9	9.6	205.1	6.2	0.3	0.1
1991-2000	22.4	27.3	18.2	132.9	9.5	186.6	6.0	0.2	1.0
2001-2010(d)	22.4	27.0	18.7	132.9	10.6	154.4	6.0	0.2	0.1
2016(e)	23.6	28.7	19.5	54.4	8.0	229.7	5.3	0.0	0.0
d-a	1.6	0.4	2.5	-19.8	-1.1	-73.9	-1.0	0.0	-0.7
d-b	1.7	0.4	2.3	16.9	0.6	-67.2	-0.8	0.2	0.0
d-c	0.9	0.5	1.2	-0.1	-0.3	-17.4	-0.6	0.1	-0.2
e-d	1.2	1.7	0.8	-78.5	-2.6	75.3	-0.7	-0.2	-0.1