



# MONTHLY CLIMATE REVIEW OVER KOREA (total 4 pages)

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## January 2015 Monthly Climate Summary

- ◇ The nationwide mean temperature (0.5 °C) in January 2015 was 1.5 °C above normal.
- ◇ The nationally-averaged precipitation (25.0 mm) was 88.8 % of normal.

- Climate features and long-term trends in January 2015 were analyzed with the data collected at the 45 meteorological stations throughout Korea (national average) from 1973 to 2015 (1908-2015 for Seoul).

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

### □ The climatic characteristics in January 2015

o Korea (as a whole),

- The mean temperature (0.5 °C), the mean maximum temperature (5.5 °C) and the mean minimum temperature (-3.9 °C) were 1.5 °C, 1.2 °C, 1.7 °C above normal, respectively.
- The nationally-averaged precipitation was 25.0 mm, which was 88.8 % of normal. The number of rainy days was 9.4, which was 2.6 days more than normal.
- The total number of hours of sunshine was 183.8, which was 106.2 % of normal.

o Seoul,

- The mean temperature (-0.9 °C), the mean maximum temperature (3.6 °C), the mean minimum temperature (-4.8 °C) were 1.5 °C, 2.1 °C, 1.1 °C above normal, respectively.
- The amount of precipitation was 11.3 mm, which was 54.3 % of normal.
- The number of rainy days was 7.0, which was 0.5 days more than normal.
- The total number of hours of sunshine was 193.3, which was 120.6 % of normal.

□ **Long-term<sup>1)</sup> trend in January 2015 climate**

o Korea (as a whole),

- The national mean temperatures in January in the 2000s (2001-2010) was 0.6 °C above that of in the 1970s (1973-1980).
- The nationally-averaged precipitation in January in the 2000s was 1.0 mm more than that of in the 1970s.
- The number of rainy days in January in the 2000s was 0.6 days less than that of in the 1970s.
- The total sunshine hours in January in the 2000s was 6.0 hours less than that of in the 1970s.

o Seoul,

- The mean temperatures in January in the 2000s (2001-2010) was 0.4 °C above that of in the 1970s (1971-1980).
- The precipitation in January in the 2000s was 2.4 mm less than that of in the 1970s.
- The number of rainy days in January in the 2000s was 1.6 days less than that of in the 1970s.
- The total sunshine hours in January in the 2000s was 5.7 hours more than that of in the 1970s.

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

## Appendix 1 Climate features of January 2015 (Nationwide)

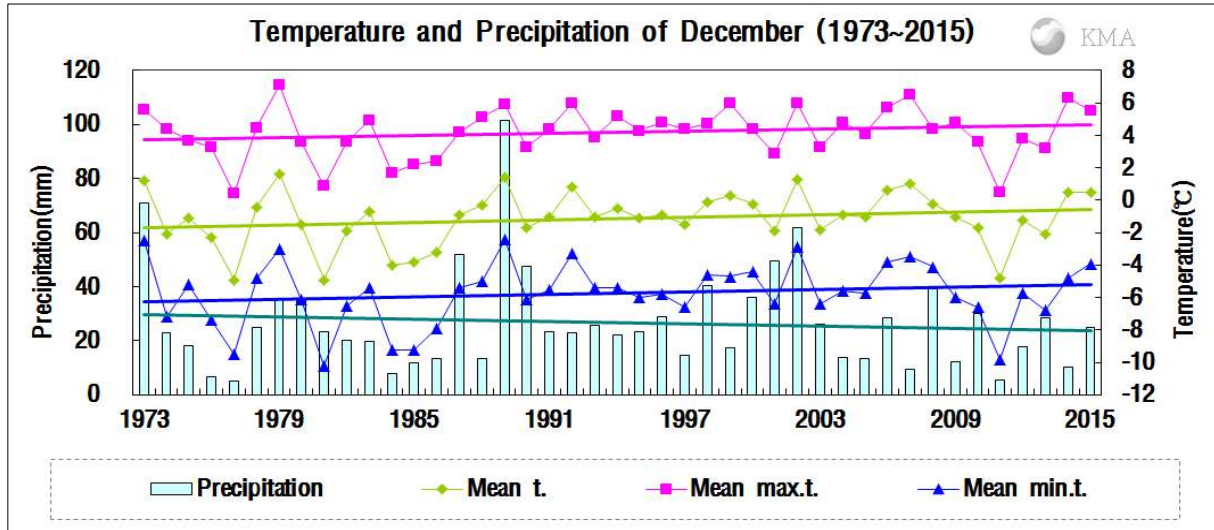


Fig 1. Temperatures (mean, mean maximum and mean minimum) and precipitation in South Korea during January (1973-2015).

### □ The nationwide average value of meteorological element during January (1973-2015)

Elements (whole country)	Jan. 2015(a)	Jan. 2014(b)	Normals of Jan. (1981-2010)(c)	a-b	a-c	Rank since 1973 (within 5th)
Mean temperature (°C)	0.5	0.5	-1.0	0.0	1.5	
Mean maximum temp. (°C)	5.5	6.3	4.3	-0.8	1.2	
Mean minimum temp. (°C)	-3.9	-4.8	-5.6	0.9	1.7	
Precipitation (mm)	25.0	10.1	28.3	14.9 (490.6%)	-3.3 (88.8%)	
Days of rain (day)	9.4	4.4	6.8	5.0	2.6	
Sunshine duration (hour)	183.8	202.1	173.1	-18.3 (90.9%)	10.7 (106.2%)	
Mean cloud amount (1/10)	4.2	3.2	4.0	1.0	0.2	
Days of minimum temperature less than -10°C (day)	2.2	3.3	5.7	-1.1	-3.5	the fifth lowest
Days of maximum temperature less than 0°C (day)	1.9	1.8	4.8	0.1	-2.9	
Days of snow (day)	4.0	3.9	6.8	0.1	-2.8	the third lowest

### □ The nationwide average value of meteorological element during January 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 minimum temperature less than -10°C (day)	Days of maximum temperature less than 0°C (day)	Days of snow (day)
1973-1980(a)	-1.2	4.1	-5.7	27.4	7.1	173.9	4.2	6.1	5.4	6.9
1981-1990(b)	-2.0	3.4	-6.7	31.1	7.0	181.4	4.0	7.7	6.9	7.1
1991-2000(c)	-0.5	4.8	-5.2	25.5	6.9	169.9	4.0	4.6	3.4	6.5
2001-2010(d)	-0.6	4.6	-5.1	28.4	6.5	167.9	4.1	4.9	4.1	6.8
2015(e)	0.5	5.5	-3.9	25.0	9.4	183.8	4.2	2.2	1.9	4.0
d-a	0.6	0.5	0.6	1.0	-0.6	-6.0	-0.1	-1.2	-1.3	-0.1
d-b	1.4	1.2	1.6	-2.7	-0.5	-13.5	0.1	-2.8	-2.8	-0.3
d-c	-0.1	-0.2	0.1	2.9	-0.4	-2.0	0.1	0.3	0.7	0.3
e-d	1.1	0.9	1.2	-3.4	2.9	15.9	0.1	-2.7	-2.2	-2.8

## Appendix 2 Climate features of January 2015 (Seoul)

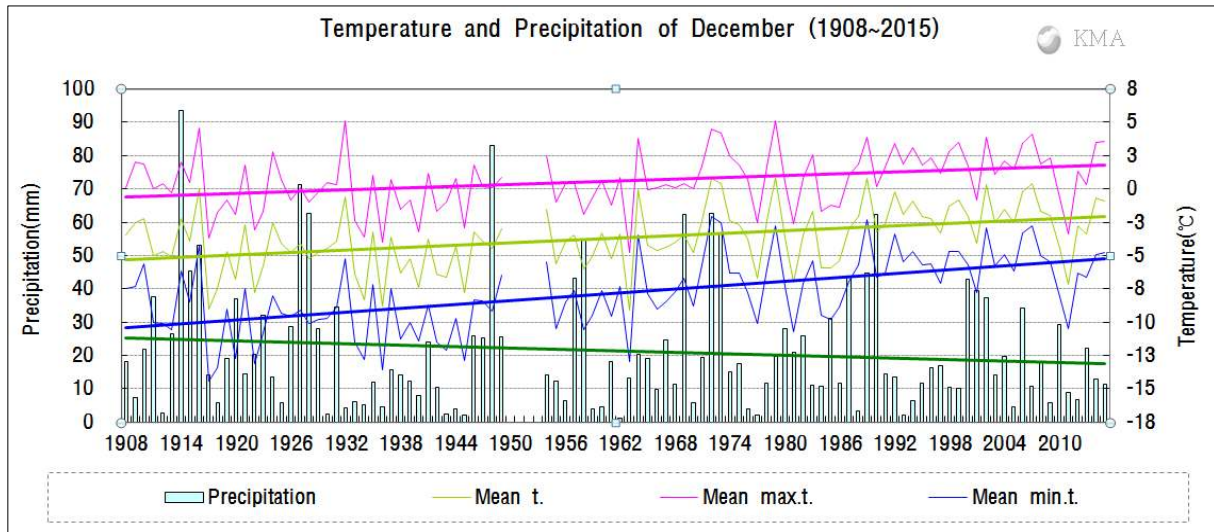


Fig 2. Temperatures (mean, mean maximum and mean minimum) and precipitation in Seoul during January (1908–2015).

### □ The average value of meteorological element during January in Seoul (1908-2015)

Elements (Seoul)	Jan. 2015(a)	Jan. 2014(b)	Normals of Jan. (1981-2010)(c)	a-b	a-c	Rank since 1908 (within 5th)
Mean temperature (°C)	-0.9	-0.7	-2.4	-0.2	1.5	
Mean maximum temp. (°C)	3.6	3.5	1.5	0.1	2.1	
Mean minimum temp. (°C)	-4.8	-4.9	-5.9	0.1	1.1	
Precipitation (mm)	11.3	13.0	20.8	-1.7 (86.9%)	-9.5 (54.3%)	
Days of rain (day)	7.0	5.0	6.5	2.0	0.5	
Sunshine duration (hour)	193.3	184.4	160.3	8.9 (104.8%)	33.0 (120.6%)	
Mean cloud amount (1/10)	3.9	3.4	3.8	0.5	0.1	
Days of minimum temperature less than -10°C (day)	0.0	2.0	5.9	-2.0	-5.9	
Days of maximum temperature less than 0°C (day)	4.0	4.0	10.7	0.0	-6.7	the fifth lowest
Days of snow (day)	4.0	6.0	8.0	-2.0	-4.0	the fifth lowest

### □ The average value of meteorological element during January 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 minimum temperature less than -10°C (day)	Days of maximum temperature less than 0°C (day)	Days of snow (day)
1911-1920(a)	-4.9	-0.1	-9.9	33.5	7.8	176.2	4.2	15.1	14.5	10.3
1921-1930	-4.6	-0.1	-9.7	28.0	7.0	173.4	4.2	15.4	14.4	8.5
1931-1940(b)	-5.4	-0.8	-9.9	11.7	6.6	185.0	3.6	17.0	17.3	9.0
1941-1949	-4.8	-0.1	-9.7	22.5	6.7	191.7	3.7	15.7	15.4	8.8
1954-1960	-4.1	0.1	-8.5	19.9	7.6	160.9	4.2	12.3	14.6	11.1
1961-1970	-4.3	0.0	-8.2	18.6	6.4	174.6	3.8	11.0	14.1	10.0
1971-1980(c)	-2.2	2.0	-5.7	23.7	7.1	148.9	4.2	5.9	9.9	9.7
1981-1990	-3.7	0.4	-7.3	26.5	6.8	166.2	4.1	9.7	14.4	9.2
1991-2000	-1.7	2.3	-5.3	14.5	7.3	160.3	3.6	3.6	8.2	8.2
2001-2010(d)	-1.8	1.9	-5.2	21.3	5.5	154.6	3.6	4.4	9.5	6.5
2015(e)	-0.9	3.6	-4.8	11.3	7.0	193.3	3.9	0.0	4.0	4.0
d-a	3.1	2.0	4.7	-12.2	-2.3	-21.6	-0.6	-10.7	-5.0	-3.8
d-b	3.6	2.7	4.7	9.6	-1.1	-30.4	0.0	-12.6	-7.8	-2.5
d-c	0.4	-0.1	0.5	-2.4	-1.6	5.7	-0.6	-1.5	-0.4	-3.2
e-d	0.9	1.7	0.4	-10.0	1.5	38.7	0.3	-4.4	-5.5	-2.5