MONTHLY CLIMATE REVIEW OVER KOREA
(total 7 pages)

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| Release | March 17, 2015 |

## February 2015 and Winter(December-February) 2014 Climate Summary

The nationwide mean temperature in February 2015 was $2.0{ }^{\circ} \mathrm{C}, 0.9{ }^{\circ} \mathrm{C}$ above normal and the nationally-averaged precipitation ( 25.5 mm ) was $73.2 \%$ of normal.

The nationwide mean temperature in Winter 2014 was $0.7{ }^{\circ} \mathrm{C}, 0.1^{\circ} \mathrm{C}$ above normal and the nationally-averaged precipitation ( 76.7 mm ) was 86.5\% of normal.
$\square$ Climate features and long-term trends in February 2015 and Winter 2014 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 February 2015

o Korea (as a whole),

- The mean temperature $\left(2.0{ }^{\circ} \mathrm{C}\right)$, the mean maximum temperature $\left(7.3^{\circ} \mathrm{C}\right)$ and the mean minimum temperature $\left(-2.5{ }^{\circ} \mathrm{C}\right)$ were $0.9{ }^{\circ} \mathrm{C}, 0.5{ }^{\circ} \mathrm{C}, 1.3^{\circ} \mathrm{C}$ above normal, respectively.
- The nationally-averaged precipitation was 25.5 mm , which was $73.2 \%$ of normal. The number of rainy days was 6.0 , which was 0.5 days less than normal.
- The total number of hours of sunshine was 178.7 , which was $104.0 \%$ of normal.
o Seoul,
- The mean temperature $\left(1.0{ }^{\circ} \mathrm{C}\right)$, the mean maximum temperature $\left(6.0{ }^{\circ} \mathrm{C}\right)$, the mean minimum temperature $\left(-2.9{ }^{\circ} \mathrm{C}\right)$ were $0.6{ }^{\circ} \mathrm{C}, 1.3{ }^{\circ} \mathrm{C}, 0.5{ }^{\circ} \mathrm{C}$ above normal, respectively.
- The amount of precipitation was 22.7 mm , which was $90.8 \%$ of normal.
- The number of rainy days was 7.0 , which was 1.2 days more than normal.
- The total number of hours of sunshine was 180.0 , which was $110.2 \%$ of normal.


## Long-term1) trend in February 2015 climate

o Korea (as a whole),

- The national mean temperatures in February in the 2000s (2001-2010) was $1.6{ }^{\circ} \mathrm{C}$ above that of in the 1970s (1973-1980).
- The nationally-averaged precipitation in February in the 2000s was 1.6 mm more than that of in the 1970s.
- The number of rainy days in February in the 2000 s was 0.6 days less than that of in the 1970s.
- The total sunshine hours in February in the 2000s was 3.4 hours less than that of in the 1970s.
o Seoul,
- The mean temperatures in February in the 2000s (2001-2010) was $2.1{ }^{\circ} \mathrm{C}$ above that of in the 1970s (1971-1980).
- The precipitation in February in the 2000s was 4.3 mm more than that of in the 1970s.
- The number of rainy days in February in the 2000 s was 0.8 days less than that of in the 1970s.
- The total sunshine hours in February in the 2000s was same that of in the 1970s.


## The climatic characteristics in Winter 2014

o Korea (as a whole),

- The mean temperature $\left(0.7{ }^{\circ} \mathrm{C}\right)$ and the mean minimum temperature $\left(-3.8{ }^{\circ} \mathrm{C}\right)$ were $0.1{ }^{\circ} \mathrm{C}, 0.3^{\circ} \mathrm{C}$ above normal, respectively. The mean maximum temperature $\left(5.7{ }^{\circ} \mathrm{C}\right.$ ) was $0.4^{\circ} \mathrm{C}$ below normal.
- The nationally-averaged precipitation was 76.7 mm , which was $86.5 \%$ of normal. The number of rainy days was 26.1 , which was 6.3 days more than normal.
- The total number of hours of sunshine was 552.8 , which was $107.7 \%$ of normal.
o Seoul,
- The mean temperature $\left(-0.9{ }^{\circ} \mathrm{C}\right)$ and the mean minimum temperature $\left(-4.8{ }^{\circ} \mathrm{C}\right)$ were $0.5{ }^{\circ} \mathrm{C}, 0.7{ }^{\circ} \mathrm{C}$ below normal, respectively. The mean maximum temperature $\left(3.7{ }^{\circ} \mathrm{C}\right)$ was $0.1^{\circ} \mathrm{C}$ above normal.
- The amount of precipitation was 51.9 mm , which was $76.4 \%$ of normal.
- The number of rainy days was 24.0 , which was 4.3 days more than normal.
- The total number of hours of sunshine was 568.9 , which was $119.7 \%$ of normal.


## Long-term ${ }^{2}$ ) trend in Winter 2014 climate

o Korea (as a whole),

- The national mean temperatures in Winter in the 2000s (2001-2010) was $1.2{ }^{\circ} \mathrm{C}$ above that of in the 1970s (1973-1980).
- The nationally-averaged precipitation in Winter in the 2000 s was 2.4 mm less than that of in the 1970s.
- The number of rainy days in Winter in the 2000s was 1.8 days less than that of in the 1970s.
- The total sunshine hours in Winter in the 2000s was 11.4 hours less than that of in the 1970s.
o Seoul,
- The mean temperatures in Winter in the 2000s (2001-2010) was $1.1{ }^{\circ} \mathrm{C}$ above that of in the 1970s (1971-1980).
- The precipitation in Winter in the 2000s was 11.9 mm less than that of in the 1970s.
- The number of rainy days in Winter in the 2000 s was 2.6 days less than that of in the 1970s.
- The total sunshine hours in Winter in the 2000s was 23.3 hours more than that of in the 1970s.


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



Fig 1. Temperatures (mean, mean maximum and mean minimum) and precipitation in South Korea during February (1973-2015).
$\square$ The nationwide average value of meteorological element during February (1973-2015)

| Elements <br> (whole country) | Feb. <br> $2015(\mathrm{a})$ | Feb. <br> $2014(\mathrm{~b})$ | Normals of <br> Feb. <br> $(1981-2010)(\mathrm{c})$ | $\mathrm{a}-\mathrm{b}$ | a-c | Rank since <br> 1973 <br> (within 5th) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mean temperature ( ${ }^{\circ} \mathrm{C}$ ) | 2.0 | 2.5 | 1.1 | -0.5 | 0.9 |  |
| Mean maximum temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | 7.3 | 7.9 | 6.8 | -0.6 | 0.5 |  |
| Mean minimum temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | -2.5 | -2.1 | -3.8 | -0.4 | 1.3 |  |
| Precipitation (mm) | 25.5 | 28.7 | 35.5 | $-3.2(239.5 \%)$ | $-10.0(73.2 \%)$ |  |
| Days of rain (day) | 6.0 | 6.5 | 6.5 | -0.5 | -0.5 |  |
| Sunshine duration (hour) | 178.7 | 145.0 | 171.9 | $33.7(123.2 \%)$ | $6.8(104.0 \%)$ |  |
| Mean cloud amount (1/10) | 4.5 | 5.2 | 4.2 | -0.7 | 0.3 |  |
| Days of minimum <br> temperature less than <br> $-10{ }^{\circ} \mathrm{C}($ day) | 1.4 | 0.5 | 2.8 | 0.9 | -1.4 |  |
| Days of maximum <br> temperature less than <br> $0{ }^{\circ} \mathrm{C}$ (day) | 0.3 | 1.0 | 1.8 | -0.7 | -1.5 |  |
| Days of snow (day) | 2.4 | 5.3 | 4.7 | -2.9 | -2.3 | minimm days rank 4th |
| Asian dust days (day) | 2.6 | 0.1 | 0.1 | 2.5 | 2.5 | maximm days rank 2th |

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

| Year | Mean temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Mean max. temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Mean min. temp ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Prep. <br> (mm) | Days of rain (day) | Sunshine duration (hour) | Mean cloud amount (1/10) | Days of minimum temperature less than $-10^{\circ} \mathrm{C}$ (day) | Days of maximum temperature less than $0^{\circ} \mathrm{C}$ (day) | $\begin{aligned} & \text { Days } \\ & \text { of } \\ & \text { snow } \\ & \text { (day) } \end{aligned}$ | Asian dust days (day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1973-1980(a) | 0.4 | 5.8 | -4.4 | 37.7 | 6.8 | 170.8 | 4.4 | 4.0 | 4.0 | 5.2 | 0.4 |
| 1981-1990(b) | 0.4 | 5.7 | -4.2 | 38.9 | 7.4 | 167.0 | 4.7 | 3.7 | 2.9 | 5.4 | 0.0 |
| 1991-2000(c) | 1.1 | 7.0 | -4.1 | 28.1 | 5.8 | 181.4 | 3.7 | 2.7 | 1.2 | 4.9 | 0.0 |
| 2001-2010(d) | 2.0 | 7.6 | -3.0 | 39.3 | 6.2 | 167.4 | 4.2 | 1.9 | 1.2 | 3.8 | 0.4 |
| 2015(e) | 2.0 | 7.3 | -2.5 | 25.5 | 6.0 | 178.7 | 4.5 | 1.4 | 0.3 | 2.4 | 2.6 |
| d-a | 1.6 | 1.8 | 1.4 | 1.6 | -0.6 | -3.4 | -0.2 | -2.1 | -2.8 | -1.4 | 0.0 |
| d-b | 1.6 | 1.9 | 1.2 | 0.4 | -1.2 | 0.4 | -0.5 | -1.8 | -1.7 | -1.6 | 0.4 |
| d-c | 0.9 | 0.6 | 1.1 | 11.2 | 0.4 | -14.0 | 0.5 | -0.8 | 0.0 | -1.1 | 0.4 |
| e-d | 0.0 | -0.3 | 0.5 | -13.8 | -0.2 | 11.3 | 0.3 | -0.5 | -0.9 | -1.4 | 2.2 |

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

Temperature and Precipitation of February (1908~2015)
3 KMA

$\longmapsto$ Precipitation
-Mean t .
-Mean max.t.
-Mean min.t.
Fig 2. Temperatures (mean, mean maximum and mean minimum) and precipitation in Seoul during February (1908-2015).
$\square$ The average value of meteorological element during February in Seoul (1908-2015)

| Elements (Seoul) | $\begin{gathered} \text { Feb. } \\ 2015(\mathrm{a}) \end{gathered}$ | $\begin{gathered} \text { Feb. } \\ \text { 2014(b) } \end{gathered}$ | Normals of Feb. <br> (1981-2010)(c) | a-b | a-c | Rank since 1908 (within 5th) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mean temperature ( ${ }^{\circ} \mathrm{C}$ ) | 1.0 | 1.9 | 0.4 | -0.9 | 0.6 |  |
| Mean maximum temp. ( ${ }^{\circ} \mathrm{C}$ ) | 6.0 | 6.6 | 4.7 | -0.6 | 1.3 |  |
| Mean minimum temp. ( ${ }^{\circ} \mathrm{C}$ ) | -2.9 | -1.8 | -3.4 | -1.1 | 0.5 |  |
| Precipitation (mm) | 22.7 | 16.2 | 25.0 | 6.5 (140.1\%) | -2.3 (90.8\%) |  |
| Days of rain (day) | 7.0 | 5.0 | 5.8 | 2.0 | 1.2 |  |
| Sunshine duration (hour) | 180.0 | 163.9 | 163.3 | 16.1 (109.8\%) | 16.7 (110.2\%) |  |
| Mean cloud amount (1/10) | 4.5 | 4.0 | 0.2 | 0.5 | 4.3 |  |
| Days of minimum temperature less than $-10^{\circ} \mathrm{C}$ (day) | 2.0 | 1.0 | 5.2 | 1.0 | -3.2 |  |
| Days of maximum temperature less than $0^{\circ} \mathrm{C}$ (day) | 2.0 | 1.0 | 4.0 | 1.0 | -2.0 |  |
| Days of snow (day) | 2.0 | 5.0 | 5.2 | -3.0 | -3.2 | minimum days rank 5th |
| Asian dust days (day) | 4.0 | 1.0 | 0.2 | 3.0 | 3.8 | maximum days rank 1st |

$\square$ The average value of meteorological element during February in Seoul in each decade (1911-2010)

| Year | Mean temp. ( ${ }^{\circ} \mathrm{C}$ ) | Mean max. temp ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Mean min. temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Prep. <br> (mm) | Days of rain (day) | Sunshine duration (hour) | Mean cloud amount (1/10) | Days of minimum temperature less than $-10^{\circ} \mathrm{C}$ (day) | Days of maximum temperature less than $0^{\circ} \mathrm{C}$ (day) | Days of snow (day) | Asian dust days (day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1911-1920(a) | -1.5 | 3.5 | -6.2 | 20.3 | 6.6 | 182.2 | 4.5 | 5.2 | 6.3 | 7.3 | 0.0 |
| 1921-1930 | -1.8 | 3.1 | -6.8 | 28.0 | 6.1 | 181.0 | 4.4 | 7.9 | 7.5 | 6.3 | 0.0 |
| 1931-1940(b) | -2.2 | 2.5 | -6.7 | 23.3 | 6.0 | 182.0 | 4.3 | 6.8 | 8.0 | 9.0 | 0.0 |
| 1941-1949 | -2.4 | 2.6 | -7.4 | 10.5 | 5.1 | 194.4 | 3.8 | 9.3 | 8.4 | 6.0 | 0.0 |
| 1954-1960 | -0.6 | 4.0 | -4.9 | 33.1 | 6.1 | 166.9 | 4.4 | 4.6 | 5.3 | 5.7 | 0.0 |
| 1961-1970 | -1.8 | 2.7 | -5.7 | 27.2 | 5.8 | 176.6 | 4.3 | 5.6 | 7.9 | 7.5 | 0.1 |
| 1971-1980(c) | -0.8 | 3.6 | -4.4 | 25.2 | 6.5 | 151.5 | 4.5 | 3.3 | 6.2 | 6.8 | 0.3 |
| 1981-1990 | -0.6 | 3.7 | -4.3 | 21.4 | 6.0 | 167.1 | 4.5 | 3.4 | 6.2 | 5.7 | 0.0 |
| 1991-2000 | 0.4 | 4.9 | -3.5 | 24.2 | 5.6 | 171.2 | 3.4 | 1.1 | 2.5 | 5.5 | 0.1 |
| 2001-2010(d) | 1.3 | 5.4 | -2.3 | 29.5 | 5.7 | 151.5 | 4.0 | 1.0 | 4.0 | 4.3 | 0.4 |
| 2015(e) | 1.0 | 6.0 | -2.9 | 22.7 | 7.0 | 180.0 | 4.5 | 2.0 | 2.0 | 2.0 | 4.0 |
| d-a | 2.8 | 1.9 | 3.9 | 9.2 | -0.9 | -30.7 | -0.5 | -4.2 | -2.3 | -3.0 | 0.4 |
| d-b | 3.5 | 2.9 | 4.4 | 6.2 | -0.3 | -30.5 | -0.3 | -5.8 | -4.0 | -4.7 | 0.4 |
| d-c | 2.1 | 1.8 | 2.1 | 4.3 | -0.8 | 0.0 | -0.5 | -2.3 | -2.2 | -2.5 | 0.1 |
| e-d | -0.3 | 0.6 | -0.6 | -6.8 | 1.3 | 28.5 | 0.5 | 1.0 | -2.0 | -2.3 | 3.6 |

## Appendix 3 Climate features of Winter 2014 (Nationwide)



Fig 1. Temperatures (mean, mean maximum and mean minimum) and precipitation in South Korea during Winter (1973-2014).
$\square$ The nationwide average value of meteorological element during Winter (1973-2014)

| Elements <br> (whole country) | Winter <br> $2014(\mathrm{a})$ | Winter <br> $2013(\mathrm{~b})$ | Normals of <br> Winter <br> $(1981-2010)(\mathrm{c})$ | a-b | a-c | Rank since <br> 1973 <br> (within 5th) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mean temperature ( ${ }^{\circ} \mathrm{C}$ ) | 0.7 | 1.5 | 0.6 | -0.8 | 0.1 |  |
| Mean maximum temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | 5.7 | 6.9 | 6.1 | -1.2 | -0.4 |  |
| Mean minimum temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | -3.8 | -3.3 | -4.1 | -0.5 | 0.3 |  |
| Precipitation (mm) | 76.7 | 59.7 | 88.5 | $17.0(189.3 \%)$ | $-11.8(86.5 \%)$ |  |
| Days of rain (day) | 26.1 | 18.0 | 19.8 | 8.1 | 6.3 | maximm days rank 3rd |
| Sunshine duration (hour) | 552.8 | 530.0 | 513.4 | $22.8(104.3 \%)$ | $39.4(107.7 \%)$ |  |
| Mean cloud amount (1/10) | 4.2 | 4.1 | 4.0 | 0.1 | 0.2 |  |
| Days of minimum <br> temperature less than <br> $-10^{\circ} \mathrm{C}($ day) | 6.9 | 5.2 | 10.6 | 1.7 | -3.7 |  |
| Days of maximum <br> temperature less than <br> $0{ }^{\circ} \mathrm{C}($ day $)$ | 6.1 | 4.6 | 8.4 | 1.5 | -2.3 |  |
| Days of snow (day) | 17.4 | 16.4 | 16.6 | 1.0 | 0.8 |  |
| Asian dust days (day) | 3.1 | 1.6 | 0.7 | 1.5 | 2.4 | maximum days rank 4th |

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

| Year | Mean temp. ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Mean max. temp ( $\left.{ }^{\circ} \mathrm{C}\right)$ | Mean min. temp. ( ${ }^{\circ} \mathrm{C}$ ) | Prep. (mm) | Days of rain (day) | Sunshine duration (hour) | Mean cloud amount (1/10) | Days of minimum temperature less than $-10^{\circ} \mathrm{C}$ (day) | Days of maximum temperature less than $0^{\circ} \mathrm{C}$ (day) | Days of snow (day) | Asian dust days (day) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1973-1980(a) | -0.3 | 5.1 | -5.0 | 92.2 | 20.8 | 521.6 | 4.1 | 15.5 | 14.1 | 18.8 | 0.5 |
| 1981-1990(b) | 0.0 | 5.5 | -4.7 | 91.9 | 21.5 | 518.7 | 4.2 | 13.4 | 11.6 | 17.9 | 0.1 |
| 1991-2000(c) | 0.8 | 6.5 | -4.1 | 84.7 | 18.6 | 515.2 | 3.8 | 9.4 | 6.3 | 16.4 | 0.6 |
| 2001-2010(d) | 0.9 | 6.3 | -3.8 | 89.8 | 19.0 | 510.2 | 4.0 | 9.8 | 8.4 | 15.8 | 1.6 |
| 2014(e) | 0.7 | 5.7 | -3.8 | 76.7 | 26.1 | 552.8 | 4.2 | 6.9 | 6.1 | 17.4 | 3.1 |
| d-a | 1.2 | 1.2 | 1.2 | -2.4 | -1.8 | -11.4 | -0.1 | -5.7 | -5.7 | -3.0 | 1.1 |
| d-b | 0.9 | 0.8 | 0.9 | -2.1 | -2.5 | -8.5 | -0.2 | -3.6 | -3.2 | -2.1 | 1.5 |
| d-c | 0.1 | -0.2 | 0.3 | 5.1 | 0.4 | -5.0 | 0.2 | 0.4 | 2.1 | -0.6 | 1.0 |
| e-d | -0.2 | -0.6 | 0.0 | -13.1 | 7.1 | 42.6 | 0.2 | -2.9 | -2.3 | 1.6 | 1.5 |

## Appendix 4 Climate features of Winter 2014 (Seoul)



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

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

| Elements (Seoul) | Winter 2014(a) | Winter 2013(b) | Normals of Winter (1981-2010)(c) | a-b | a-c | Rank since 1908 (within 5th) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mean temperature ( ${ }^{\circ} \mathrm{C}$ ) | -0.9 | 0.3 | -0.4 | -1.2 | -0.5 |  |
| Mean maximum temp. ( ${ }^{\circ} \mathrm{C}$ ) | 3.7 | 4.5 | 3.6 | -0.8 | 0.1 |  |
| Mean minimum temp. ( ${ }^{\circ} \mathrm{C}$ ) | -4.8 | -3.4 | -4.1 | -1.4 | -0.7 |  |
| Precipitation (mm) | 51.9 | 53.9 | 67.9 | -2.0 (96.3\%) | -16.0 (76.4\%) |  |
| Days of rain (day) | 24.0 | 19.0 | 19.7 | 5.0 | 4.3 |  |
| Sunshine duration (hour) | 568.9 | 532.7 | 475.4 | 36.2 (106.8\%) | 93.5 (119.7\%) |  |
| Mean cloud amount (1/10) | 3.9 | 3.8 | 3.9 | 0.1 | 0.0 |  |
| Days of minimum temperature less than $-10^{\circ} \mathrm{C}$ (day) | 5.0 | 3.0 | 9.4 | 2.0 | -4.4 |  |
| Days of maximum temperature less than $0^{\circ} \mathrm{C}$ (day) | 15.0 | 11.0 | 20.1 | 4.0 | -5.1 |  |
| Days of snow (day) | 19.0 | 19.0 | 19.1 | 0.0 | -0.1 |  |
| Asian dust days (day) | 6.0 | 2.0 | 0.9 | 4.0 | 5.1 | maximum days rank 1st |

The average value of meteorological element during Winter in Seoul in each decade (1911-2010)
$\left.\begin{array}{c|c|c|c|c|c|c|c|c|c|c|c}\hline \text { Year } & \begin{array}{c}\text { Mean } \\ \text { temp. } \\ \left({ }^{\circ} \mathrm{C}\right)\end{array} & \begin{array}{c}\text { Mean } \\ \text { max. } \\ \text { temp. } \\ \left({ }^{\circ} \mathrm{C}\right)\end{array} & \begin{array}{c}\text { Mean } \\ \text { min. } \\ \text { temp. } \\ \left({ }^{\circ} \mathrm{C}\right)\end{array} & & \begin{array}{c}\text { Prep. } \\ (\mathrm{mm})\end{array} & \begin{array}{c}\text { Days } \\ \text { of rain } \\ \text { (day) }\end{array} & \begin{array}{c}\text { Sunshine } \\ \text { duration } \\ \text { (hour) }\end{array} & \begin{array}{c}\text { Mean cloud } \\ \text { amount } \\ (1 / 10)\end{array} & \begin{array}{c}\text { Days of } \\ \text { minimum } \\ \text { temperature } \\ \text { less than } \\ -10{ }^{\circ} \mathrm{C} \text { (day) }\end{array} & \begin{array}{c}\text { Days of } \\ \text { maximum } \\ \text { temperature } \\ \text { less than } \\ 0{ }^{\circ} \mathrm{C}(\text { day })\end{array} & \begin{array}{c}\text { Days } \\ \text { of } \\ \text { snow } \\ \text { (day) }\end{array} \\ \hline 1911-1920(\mathrm{a}) & -2.7 & 2.1 & -7.6 & 71.4 & 21.9 & 539.2 & 4.3 & 27.2 & 29.5 & 25.1 & 0.0 \\ \hline 1921-1930 & -2.8 & 1.8 & -7.8 & 93.5 & 22.7 & 498.2 & 4.5 & 31.7 & 30.7 & 24.1 & 0.0 \\ \hline \text { dast } \\ \text { days }\end{array}\right)$

