



8<sup>th</sup> July 2024

## Preliminary Precipitation and Temperature Summary May, 2024

### Highlights

Precipitation over the country as a whole was 87.9% of the normal indicating below normal precipitation. Maximum and minimum temperature were above normal over most part of the country. Changunarayan, Chautara, Patan (Baitadi) and Tikapur station made the new record of highest maximum temperature.

### Synoptic Sequence

A number of western disturbances along with local disturbances affected weather of Nepal. In the fourth week of May, a severe cyclonic storm “Remal” over east-central Bay of Bengal affected the weather of eastern part of the country.

### Precipitation

Southern part of Koshi Province, central part of Gandaki Province and some part of Bagamati Province recorded precipitation greater than 200 mm (Figure 1). Central part of Koshi Province and Madhesh Province, western part of Bagamati Province, eastern part of Gandaki Province, western part of Karnali Province and southern part of Sudurpaschim Province recorded below normal precipitation while remaining part of the country recorded near-normal to above normal precipitation (Figure 2). Syangja station recorded the highest monthly precipitation of 336.4 mm and Gulariya station recorded the lowest monthly precipitation of 13.3 mm. Similarly, Chisapani (Karnali) station and Dhangadhi (Attariya) station recorded the highest (219.6%) and lowest (22.1%) percentage of monthly normal precipitation respectively (Annex 1). Based on the average of 99 stations (stations with normal precipitation data shown in figure 2), Nepal received 87.9 % of the normal precipitation.

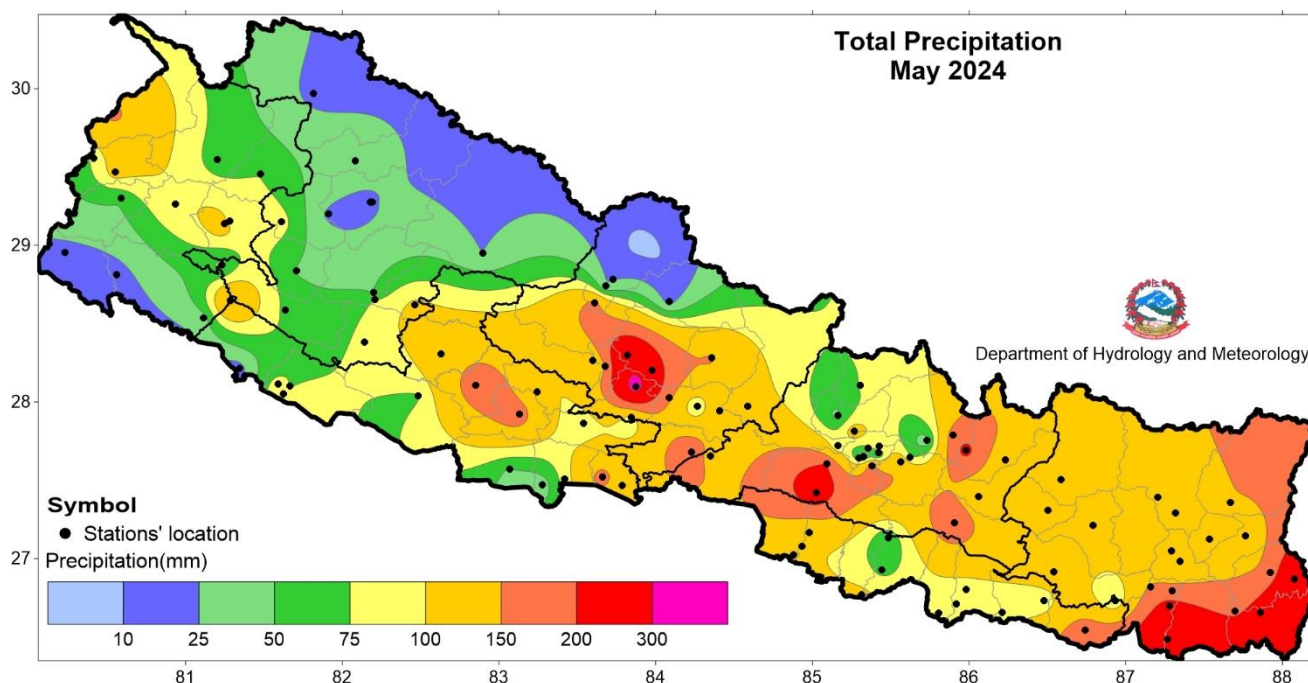


Figure 1: Total precipitation in May 2024.



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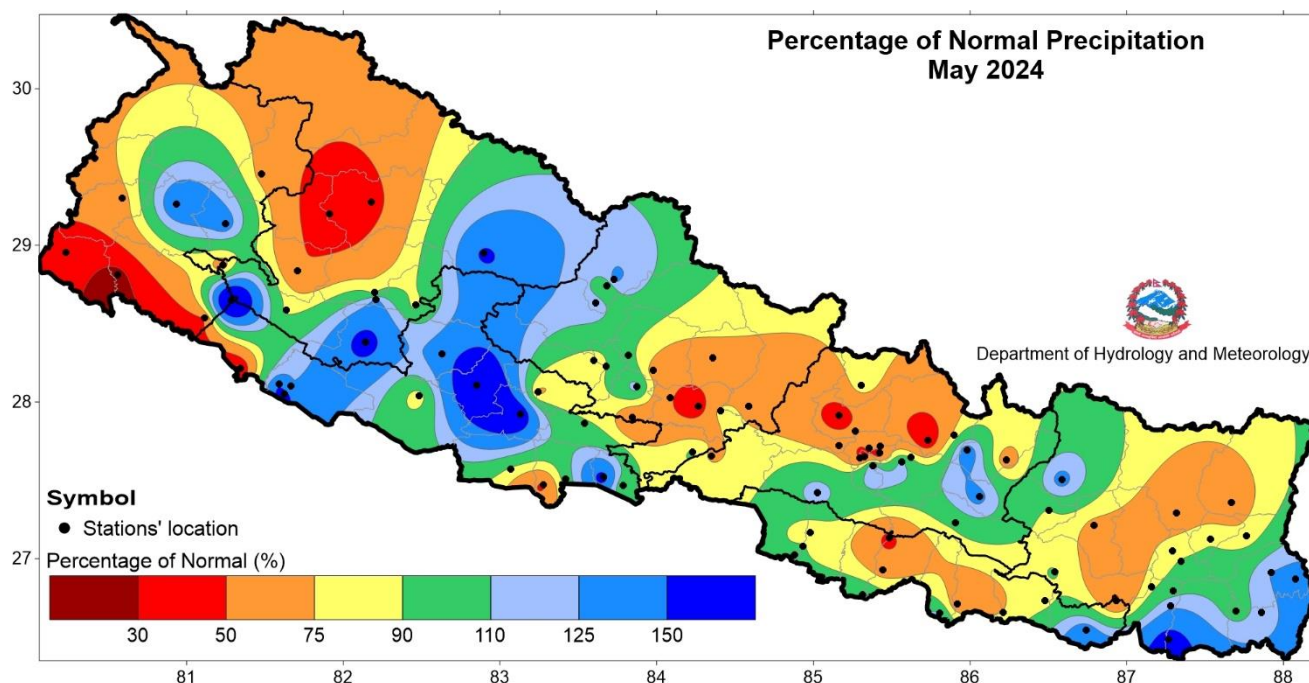


Figure 2: Percentage of normal precipitation in May 2024.

The temporal distribution of monthly cumulative average of daily precipitation shows that precipitation was near-normal by the end of second week, but below normal for the remaining of the period (Figure 3).

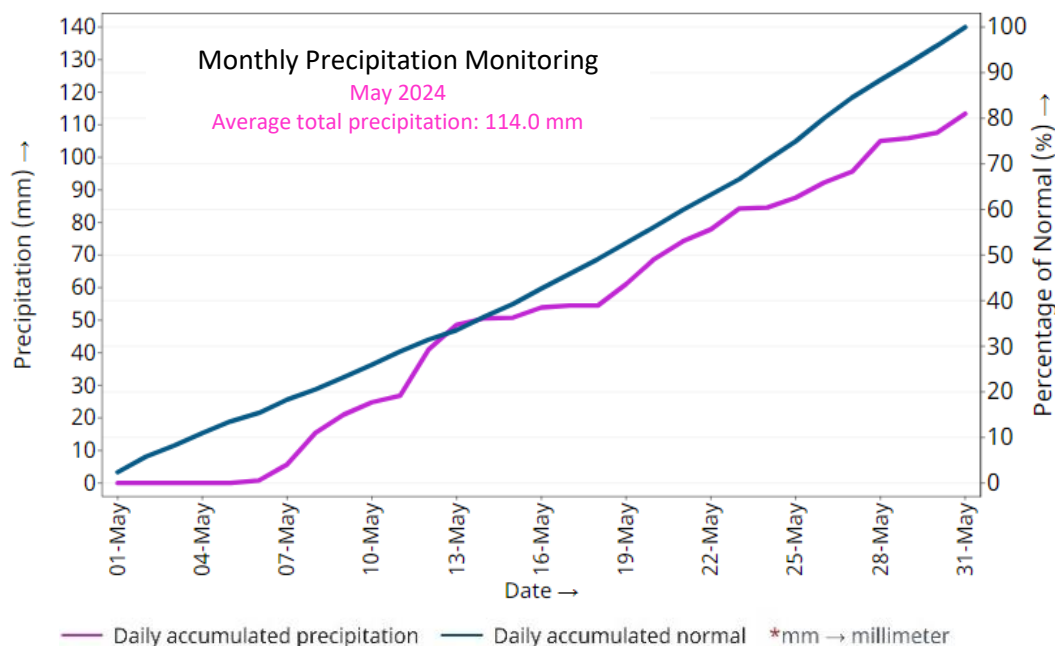


Figure 3: Cumulative average of daily normal and observed precipitation during May 2024.



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### Maximum Temperature

Western and central Terai recorded higher maximum temperature in comparison to eastern Terai (Figure 1). Above normal maximum temperature was observed in most part of the country (Figure 4). Tikapur station and Humde station recorded the highest and lowest monthly maximum temperature of 39.4°C and 17.3°C respectively. Similarly, the highest monthly anomaly of 3.0°C was recorded at Baglung station and the lowest of -1.1°C was recorded at Semari station (Annex 1). The highest daily maximum temperature of 45.2°C was recorded at Tikapur station on 30<sup>th</sup> May while the lowest daily maximum temperature of 11.0°C was recorded at Humde station on 8<sup>th</sup> May.

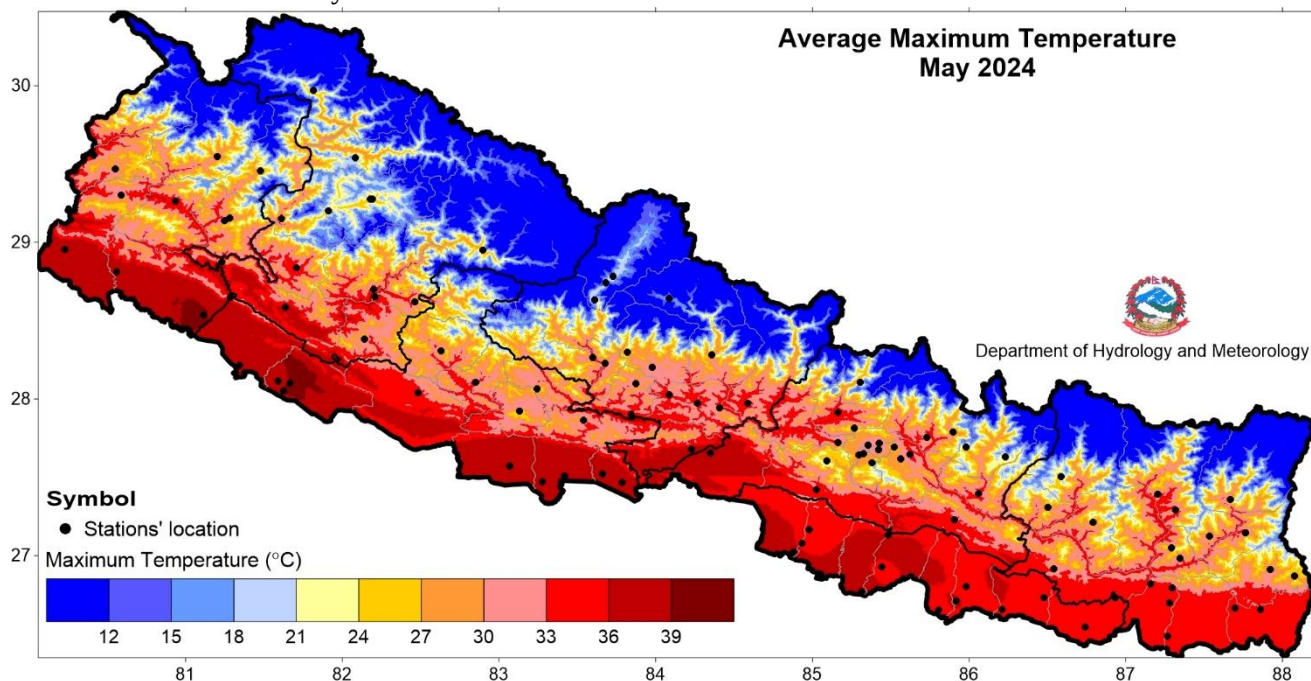


Figure 4: Maximum Temperature in May 2024.

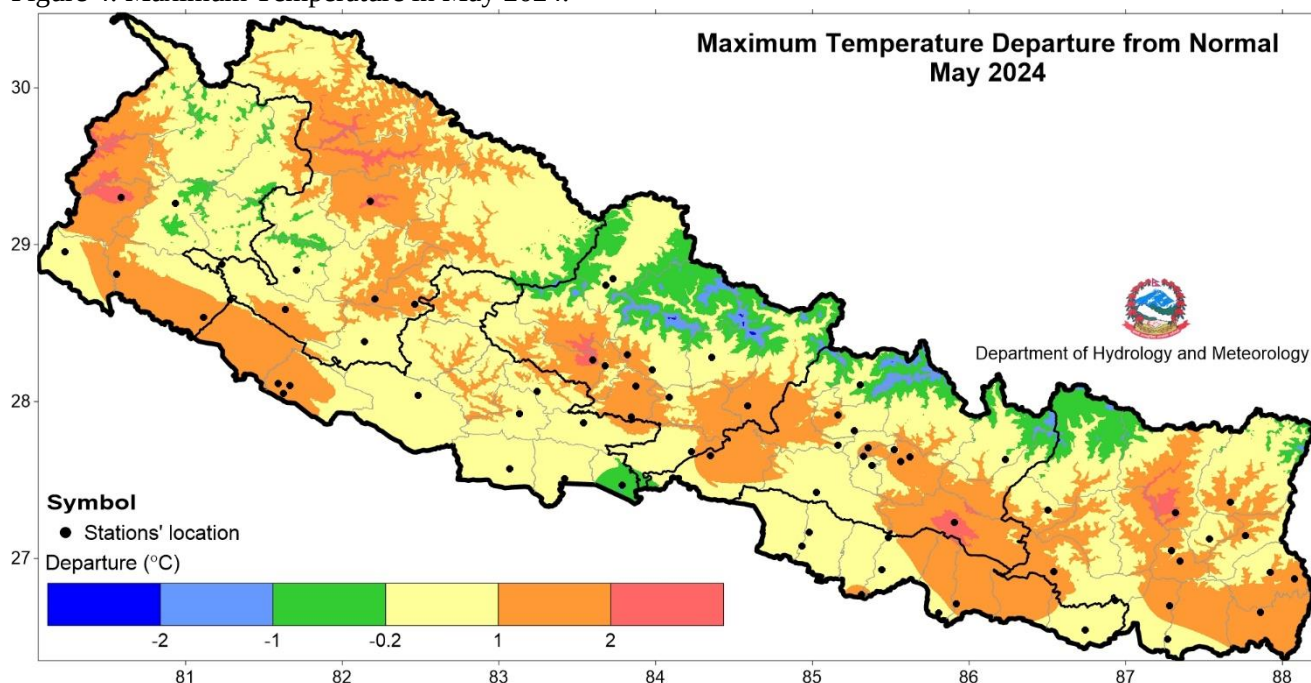


Figure 5: Departure from normal maximum temperature in May 2024.





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### Minimum Temperature

Most part of the country observed normal to above normal minimum temperature (Figure 7). Minimum temperature remained above 24°C in most part of Terai region (Figure 6). Birgunj station and Humde station recorded the highest and lowest monthly minimum temperature of 26.0°C and 4.8°C respectively. Similarly, the highest monthly anomaly of 2.8°C was recorded at Gaida (Kankai) station and the lowest anomaly of -4.3°C was recorded at Gaur station (Annex 1). The highest daily minimum temperature of 33.0°C was recorded at Rampur station on 25<sup>th</sup> May while the lowest daily minimum temperature of -2.8°C was recorded at Humde station on 2<sup>nd</sup> May.

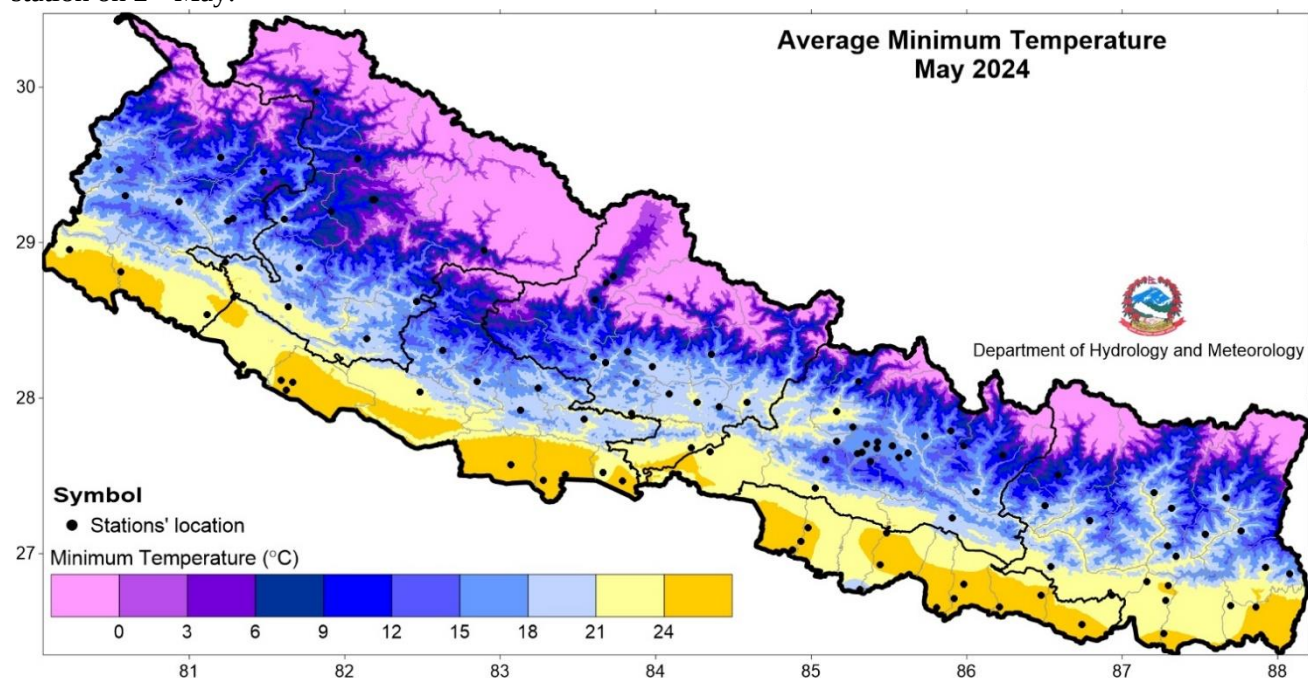


Figure 6: Minimum Temperature in May 2024.

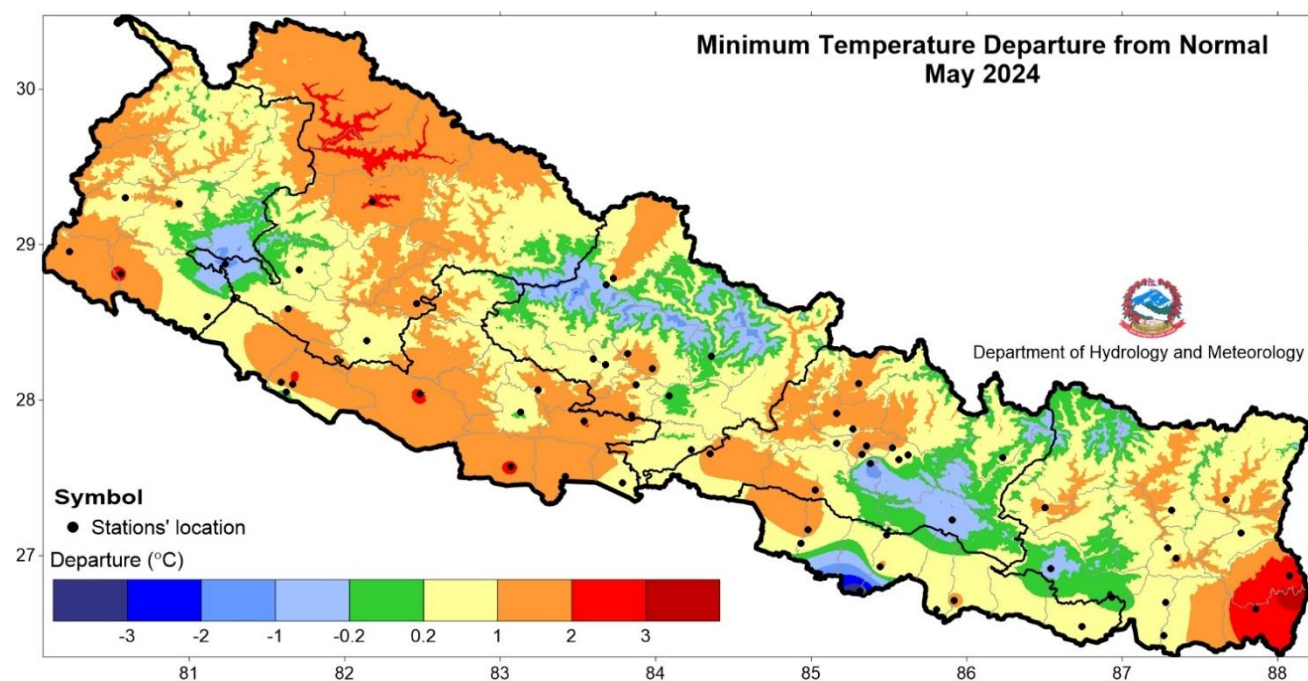


Figure 7: Departure from normal minimum temperature in May 2024.



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## Drought

Dhangadi (Attariya) station recorded below normal precipitation by 77.9% indicating extreme drought condition. Similarly, southern part of Sudurpaschim Province and few places in Karnali Province, Gandaki Province, Bagamati province and Madhesh Province faced severe drought condition. Central part of Koshi Province and Madhesh Province, north-western part of Bagamati Province, eastern part of Gandaki Province, north-western part of Karnali Province and south-western part of Sudurpaschim Province recorded moderate drought condition (Figure 2). Drought has been categorized based on the observed precipitation compared to normal. A drought is defined as moderate, severe and extreme as given in the table below.

Table 1: Categorization of drought.

| S.N. | Percentage of normal precipitation (%) | Drought category |
|------|----------------------------------------|------------------|
| 1    | 50 - 75                                | Moderate drought |
| 2    | 30 - 50                                | Severe drought   |
| 3    | < 30                                   | Extreme drought  |

## Hot days and Heat wave

Hot days and heatwave conditions were observed on the first, third and last week of May in several parts of the country (Figure 9(i), (ii) and (iii)). The temperature was exceeding 40°C for a few days at some places in the southern part of the country.

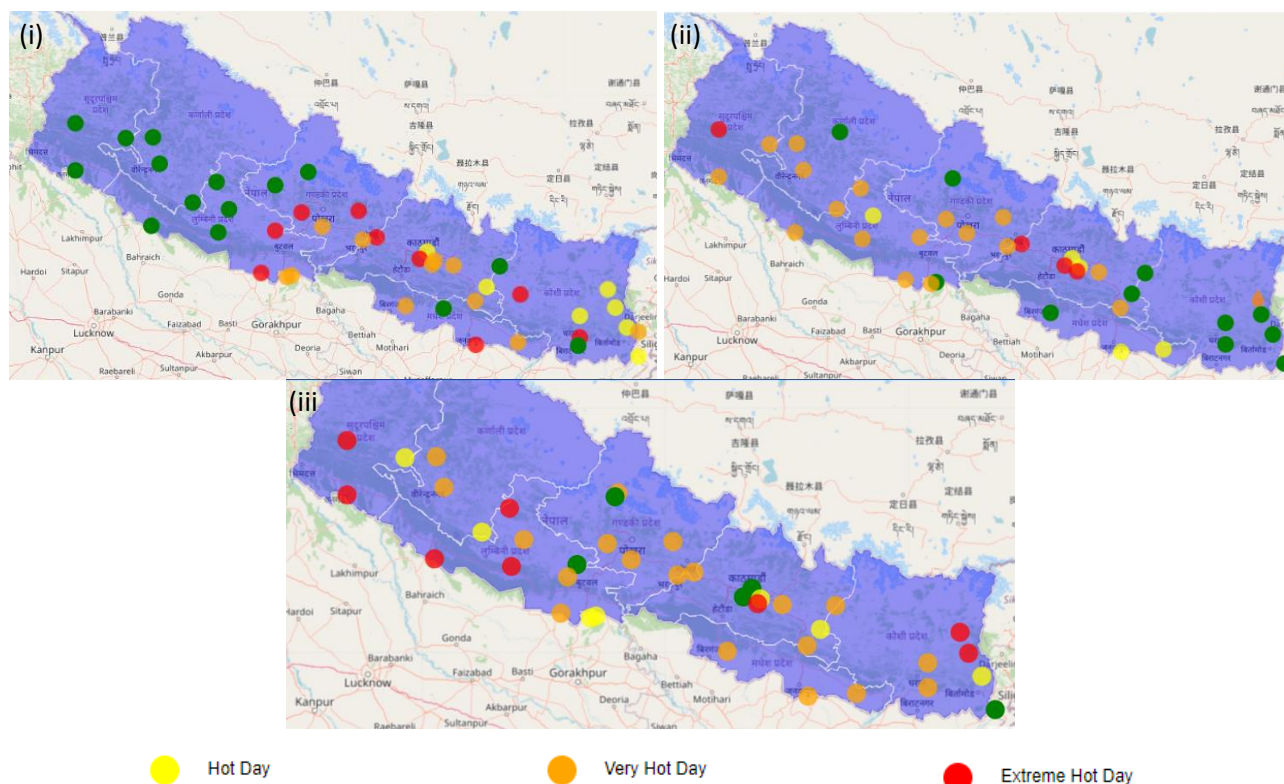


Figure 9: Observed hot days alert on (i) 2<sup>nd</sup> May, (ii) 19<sup>th</sup> May and (iii) 30<sup>th</sup> May 2024.



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### Historical record break

Some of the stations broke the previous record of ever-recorded extremes and May's extremes of temperature and precipitation (Table 1, 2, 3 & 4).

Table 1: List of stations breaking ever-recorded highest daily maximum temperature in May 2024.

| S.N. | Station Name   | District      | Record break maximum temperature (°C)/Date | Previous highest maximum temperature (°C)/Date |
|------|----------------|---------------|--------------------------------------------|------------------------------------------------|
| 1    | Changu Narayan | Bhaktapur     | 34.4/2024-05-31                            | 33.6/2015-06-06                                |
| 2    | Chautara       | Sindhupalchok | 39.9/2024-05-29                            | 35.6/2023-06-23                                |
| 3    | Patan          | Baitadi       | 36.2/2024-05-18                            | 35.5/2019-06-15                                |
| 4    | Tikapur        | Kailali       | 45.2/2024-05-30                            | 45.0/2012-06-13                                |

Table 2: List of stations breaking the May's highest daily maximum temperature in May 2024.

| S.N. | Station Name          | District      | Record break maximum temperature (°C)/Date | Previous highest maximum temperature (°C)/Date |
|------|-----------------------|---------------|--------------------------------------------|------------------------------------------------|
| 1    | Baitadi (Gothalapani) | Baitadi       | 38.5/2024-05-31                            | 37.0/2019-05-30                                |
| 2    | Bhaktapur             | Bhaktapur     | 35.5/2024-05-20                            | 33.5/2021-05-24                                |
| 3    | Changu Narayan        | Bhaktapur     | 34.4/2024-05-31                            | 32.8/2019-05-10                                |
| 4    | Chautara              | Sindhupalchok | 39.9/2024-05-29                            | 34.5/2013-05-11                                |
| 5    | Dadeldhura            | Dadeldhura    | 32.7/2024-05-18                            | 32.3/2012-05-30                                |
| 6    | Dhangadhi (Attariya)  | Dhangadi      | 44.1/2024-05-30                            | 44.0/2012-05-17                                |
| 7    | Gulariya              | Bardiya       | 42.5/2024-05-30                            | 42.0/2019-05-11                                |
| 8    | Jiri                  | Dolakha       | 29.4/2024-05-30                            | 28.9/1966-05-02                                |
| 9    | Khadbari              | Sankhuwasabha | 34.5/2024-05-25                            | 34.0/2023-05-14                                |
| 10   | Patan                 | Baitadi       | 36.2/2024-05-18                            | 34.0/2018-05-21                                |
| 11   | Taplejung             | Taplejung     | 29.0/2024-05-25                            | 28.7/1966-05-03                                |
| 12   | Tikapur               | Kailali       | 45.2/2024-05-30                            | 44.4/1994-05-14                                |
| 13   | Udayapur Gadhi        | Udayapur      | 38.5/2024-05-01                            | 37.8/1995-05-03                                |

Table 3: List of stations breaking the May's lowest daily minimum temperature in May 2024.

| S.N. | Station Name          | District   | Record break minimum temperature (°C)/Date | Previous lowest minimum temperature (°C)/Date |
|------|-----------------------|------------|--------------------------------------------|-----------------------------------------------|
| 1    | Gaur                  | Rautahat   | 11.8/2024-05-09                            | 15.5/1990-05-01                               |
| 2    | Hardinath             | Dhanusha   | 17.6/2024-05-03                            | 18.4/2023-05-11                               |
| 3    | Mahendra Nagar        | Kanchanpur | 14.3/2024-05-02                            | 14.6/1979-05-01                               |
| 4    | Nepalgunj (Reg. Off.) | Banke      | 10.5/2024-05-08                            | 14.0/1984-05-10                               |
| 5    | Phattepur             | Saptari    | 14.3/2024-05-12                            | 15.0/1989-05-10                               |

Table 4: Station breaking May's highest daily precipitation in May 2024.

| S.N. | Station Name | District | Record break daily precipitation (mm)/Date | Previous highest precipitation(mm)/Date |
|------|--------------|----------|--------------------------------------------|-----------------------------------------|
| 1    | Rajbiraj     | Saptari  | 98.8/2024-05-12                            | 86.2/2014-05-28                         |





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**Annex 1: Monthly precipitation and temperature data of May 2024**

| Station               | Latitude | Longitude | Elevation | Precipitation |             |                   |         |         |         | Temperature                          |              |                            |                            |              |                            |                           |
|-----------------------|----------|-----------|-----------|---------------|-------------|-------------------|---------|---------|---------|--------------------------------------|--------------|----------------------------|----------------------------|--------------|----------------------------|---------------------------|
|                       |          |           |           | Total (mm)    | % of Normal | No. of Rainy Days |         |         |         | 24hr Highest precipitation (mm)/Date | Maximum      |                            |                            | Minimum      |                            |                           |
|                       |          |           |           |               |             | ≥1.0mm            | ≥10.0mm | ≥25.0mm | ≥50.0mm |                                      | Average (°C) | Departure from normal (°C) | Highest temperature / Date | Average (°C) | Departure from normal (°C) | Lowest temperature / Date |
| Baglung               | 28.2636  | 83.6003   | 964       | 115.4         | 82.0        | 12                | 4       | 1       | 0       | 38.6/7                               | 34.5         | 3.0                        | 38/25                      | 19.0         | 0.9                        | 15.6/7                    |
| Bahrabise             | 27.7887  | 85.9000   | 884       | 170.4         | 79.2        | 10                | 5       | 3       | 0       | 40/23                                | 32.6         | -                          | 36.3/27                    | 18.2         | -                          | 10.6/23                   |
| Baitadi (Gothalapani) | 29.5574  | 80.4132   | 1352      | 76.9          | 65.8        | 12                | 1       | 1       | 0       | 42.5/28                              | 33.4         | -                          | 38.5/31                    | 18.8         | -                          | 15.5/16                   |
| Bajura (Martadi)      | 29.4570  | 81.4804   | 1598      | 74.4          | 68.5        | 11                | 2       | 0       | 0       | 19.5/27                              | 28.6         | -                          | 32/30                      | 16.9         | -                          | 12.5/2                    |
| Bandipur              | 27.9418  | 84.4064   | 991       | 142.4         | 80.5        | 10                | 4       | 3       | 0       | 40.5/31                              | 29.6         | -                          | 33.5/25                    | 16.2         | -                          | 12/7                      |
| Bhairahawa Airport    | 27.5068  | 83.4204   | 108       | 85.4          | 97.5        | 5                 | 3       | 1       | 0       | 43.1/28                              | 37.3         | 0.7                        | 41.4/1                     | 25.3         | 1.4                        | 18.5/3                    |
| Bhaktapur             | 27.6767  | 85.4240   | 1315      | 36.8          | 27.8        | 13                | 0       | 0       | 0       | 7.5/10                               | 31.7         | -                          | 35.5/20                    | 16.6         | -                          | 10/2                      |
| Bijuar Tar            | 28.1035  | 82.8520   | 835       | 174.3         | 193.3       | 12                | 8       | 1       | 0       | 34.4/10                              | 34.1         | -                          | 37.5/30                    | 19.9         | -                          | 15/2                      |
| Biratnagar Airport    | 26.4840  | 87.2670   | 72        | 284.6         | 165.5       | 8                 | 6       | 5       | 2       | 91.5/10                              | 34.1         | 0.5                        | 38.7/25                    | 24.2         | 0.7                        | 18.2/2                    |
| Birganj               | 27.0232  | 84.8782   | 67        | 109.6         | 91.3        | 7                 | 3       | 1       | 1       | 51/8                                 | 37.0         | -                          | 41.6/1                     | 26.0         | -                          | 20/3                      |
| Chainpur (East)       | 27.2921  | 87.3170   | 1277      | 116.5         | 62.0        | 10                | 4       | 1       | 1       | 51.2/12                              | 30.0         | 2.0                        | 33.2/27                    | 16.6         | 0.7                        | 13.5/12                   |
| Chainpur Bajhang AW   | 29.5459  | 81.2011   | 1405      | 61.4          | -           | 11                | 2       | 0       | 0       | 15/13                                | 31.2         | -                          | 35.2/31                    | 16.6         | -                          | 12.4/16                   |
| Changu Narayan        | 27.7161  | 85.4268   | 1502      | 103.5         | 64.9        | 16                | 4       | 0       | 0       | 19.2/27                              | 30.9         | -                          | 34.4/31                    | 16.6         | -                          | 13.2/8                    |
| Chapakot              | 27.8999  | 83.8459   | 617       | 82.5          | 51.3        | 11                | 2       | 1       | 0       | 26.2/19                              | 35.3         | 2.0                        | 39.8/1                     | 21.1         | 1.4                        | 14.2/7                    |
| Charikot              | 27.6902  | 85.9802   | 2132      | 216.5         | 141.8       | 17                | 5       | 2       | 1       | 69.2/26                              | 22.9         | -                          | 27.2/30                    | 13.3         | -                          | 9/7                       |
| Chatara               | 26.8204  | 87.1592   | 105       | 154.6         | 85.5        | 9                 | 4       | 3       | 0       | 37.8/23                              | 35.5         | -                          | 39.7/2                     | 23.9         | -                          | 19.1/3                    |
| Chaurjhari Tar        | 28.6540  | 82.2103   | 863       | 78.5          | 132.4       | 9                 | 2       | 1       | 0       | 41/25                                | 36.7         | 1.5                        | 41/31                      | -            | -                          | -                         |
| Chautara              | 27.7538  | 85.7321   | 1552      | 35.8          | 26.7        | 5                 | 2       | 0       | 0       | 11.9/9                               | 30.2         | -                          | 39.9/29                    | 14.8         | -                          | 11.2/7                    |
| Chisapani (Karnali)   | 28.6472  | 81.2854   | 201       | 161.4         | 219.6       | 8                 | 4       | 3       | 0       | 46.4/21                              | 37.7         | 1.1                        | 42.6/30                    | 25.5         | 0.7                        | 19.6/9                    |
| Dadeldhura            | 29.3014  | 80.5878   | 1879      | 53.1          | 65.4        | 7                 | 2       | 0       | 0       | 22/22                                | 28.5         | 2.2                        | 32.7/18                    | 15.3         | 0.7                        | 10.2/2                    |
| Dailekh               | 28.8381  | 81.7085   | 1394      | 48.5          | 52.4        | 7                 | 2       | 0       | 0       | 14.2/9                               | 31.1         | -0.4                       | 35.8/30                    | 16.8         | 0.2                        | 12.2/9                    |
| Damak                 | 26.6623  | 87.6988   | 119       | 192.4         | 101.7       | 10                | 6       | 4       | 0       | 42.9/19                              | 34.6         | -                          | -                          | 23.1         | -                          | 17.5/3                    |
| Daman                 | 27.6044  | 85.0920   | 2265      | 203.3         | -           | 16                | 7       | 2       | 0       | 48.5/8                               | 22.0         | -                          | 26.6/24                    | 12.2         | -                          | 8.7/8                     |
| Damauli               | 27.9737  | 84.2651   | 347       | 71.0          | 33.4        | 8                 | 3       | 0       | 0       | 23/13                                | 34.6         | -                          | 39.5/24                    | 22.2         | -                          | 15.5/6                    |
| Darchula New          | 29.8429  | 80.5388   | 887       | 159.5         | -           | 12                | 5       | 2       | 1       | 55.3/11                              | 34.4         | -                          | 37.5/18                    | 19.7         | -                          | 16.4/2                    |
| Dhangadhi (Attariya)  | 28.8127  | 80.5600   | 184       | 15.3          | 22.1        | 5                 | 0       | 0       | 0       | 7.5/12                               | 39.0         | 1.4                        | 44.1/30                    | 24.9         | 2.2                        | 16.8/2                    |
| Dhankuta              | 26.9832  | 87.3460   | 1192      | 103.4         | 90.9        | 9                 | 5       | 0       | 0       | 24.2/19                              | 29.1         | 1.7                        | 32.7/29                    | 19.0         | 1.0                        | 15.4/9                    |
| Dharan Bazar          | 26.7922  | 87.2978   | 310       | 168.3         | 103.7       | 10                | 5       | 3       | 1       | 55/23                                | 34.3         | -                          | 38.4/1                     | 24.7         | -                          | 20.5/19                   |
| Dhulikhel             | 27.6161  | 85.5655   | 1543      | 147.7         | 114.1       | 15                | 6       | 1       | 0       | 38/22                                | 28.0         | 1.7                        | 31.5/2                     | 15.6         | 0.8                        | 12/8                      |
| Dhunchhe              | 28.1053  | 85.3077   | 2005      | 76.0          | 82.9        | 11                | 2       | 1       | 0       | 25.5/31                              | 24.1         | 0.1                        | 28.4/30                    | 15.0         | 1.7                        | 9.9/2                     |
| Dhunibesi             | 27.7229  | 85.1643   | 991       | 79.0          | 67.2        | 11                | 3       | 0       | 0       | 22.8/25                              | 32.8         | 1.0                        | 37/1                       | 20.3         | 0.9                        | 16.4/7                    |
| Diktal                | 27.2125  | 86.7919   | 1612      | 123.9         | 68.7        | 13                | 4       | 1       | 0       | 36.1/12                              | 26.2         | -                          | 30/26                      | 16.8         | -                          | 11.1/15                   |
| Dipayal (Doti)        | 29.2621  | 80.9369   | 563       | 98.9          | 146.5       | 9                 | 3       | 1       | 0       | 45.7/8                               | 36.8         | 0.1                        | 41.2/31                    | 20.7         | 1.1                        | 14.3/2                    |
| Dumkauli              | 27.6807  | 84.2285   | 183       | 193.2         | 92.9        | 6                 | 5       | 3       | 2       | 70.3/8                               | 36.6         | 0.7                        | 41.5/1                     | 23.9         | 0.7                        | 18.4/3                    |
| Dunai                 | 28.9507  | 82.8960   | 2098      | 25.1          | 155.1       | 9                 | 0       | 0       | 0       | 4.5/7                                | 28.7         | -                          | 32/18                      | 9.3          | -                          | 4.5/2                     |
| Gaida (Kankai)        | 26.6569  | 87.8607   | 107       | 224.9         | 115.6       | 10                | 6       | 3       | 2       | 67.2/19                              | 34.8         | 1.5                        | 39.5/25                    | 24.6         | 2.8                        | 18/3                      |
| Gaur                  | 26.7671  | 85.3130   | 77        | 110.9         | 109.9       | 5                 | 4       | 2       | 0       | 31.4/8                               | 36.6         | 1.4                        | 41.8/1                     | 19.2         | -4.3                       | 11.8/9                    |
| Ghorai (Dang)         | 28.0372  | 82.4842   | 663       | 72.5          | 80.0        | 6                 | 5       | 0       | 0       | 17/20                                | 34.8         | 0.9                        | 40.2/30                    | 23.3         | 2.2                        | 19/3                      |
| Godavari              | 27.5929  | 85.3788   | 1527      | 168.7         | 127.1       | 17                | 7       | 1       | 0       | 41/8                                 | 26.8         | 0.3                        | 31/30                      | 13.4         | -1.3                       | 10/2                      |
| Gorkha (Birenchowk)   | 27.9714  | 84.5894   | 724       | 117.7         | 71.1        | 6                 | 4       | 3       | 0       | 39/7                                 | 33.1         | 1.8                        | 36.9/1                     | 20.8         | -                          | 16.4/7                    |
| Gulariya              | 28.2128  | 81.3452   | 126       | 13.3          | 23.5        | 3                 | 0       | 0       | 0       | 9.6/12                               | 38.0         | -                          | 42.5/30                    | 22.9         | -                          | 15/2                      |
| Hardinath             | 26.8000  | 85.9833   | 93        | 85.7          | -           | 6                 | 3       | 1       | 0       | 31.2/12                              | 35.5         | -                          | 40.4/1                     | 24.6         | -                          | 17.6/3                    |
| Hetauda N.F.I.        | 27.4202  | 85.0252   | 452       | 242.2         | 123.1       | 11                | 7       | 4       | 0       | 45.2/28                              | 34.5         | 0.4                        | -                          | 22.3         | 1.2                        | 17.8/3                    |
| Humde                 | 28.6399  | 84.0881   | 3401      | 17.6          | -           | 3                 | 1       | 0       | 0       | 12.5/16                              | 17.3         | -                          | 21.5/27                    | 4.8          | -                          | -2.8/2                    |
| Ilam Tea Estate       | 26.9096  | 87.9231   | 1208      | 169.4         | 125.7       | 14                | 4       | 2       | 0       | 45.7/12                              | 26.8         | 0.8                        | 30/25                      | 19.0         | -                          | 15/10                     |
| Jajarkot              | 28.6990  | 82.2001   | 1236      | 49.9          | 87.1        | 8                 | 1       | 0       | 0       | 17/13                                | 32.8         | -                          | 37.5/30                    | -            | -                          | -                         |



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| Station             | Latitude | Longitude | Elevation | Precipitation |             |                   |         |         |         |                                      | Temperature  |                            |                            |              |                            |                           |                                       |
|---------------------|----------|-----------|-----------|---------------|-------------|-------------------|---------|---------|---------|--------------------------------------|--------------|----------------------------|----------------------------|--------------|----------------------------|---------------------------|---------------------------------------|
|                     |          |           |           | Total (mm)    | % of Normal | No. of Rainy Days |         |         |         | 24hr Highest precipitation (mm)/Date | Maximum      |                            |                            | Minimum      |                            |                           | No. of days with maximum temp. > 30°C |
|                     |          |           |           |               |             | ≥1.0mm            | ≥10.0mm | ≥25.0mm | ≥50.0mm |                                      | Average (°C) | Departure from normal (°C) | Highest temperature / Date | Average (°C) | Departure from normal (°C) | Lowest temperature / Date |                                       |
| Jalesor             | 26.6522  | 85.8073   | 68        | 100.2         | 114.5       | 10                | 4       | 2       | 0       | 35.8/12                              | 35.7         | 0.5                        | 40/1                       | 24.8         | 0.5                        | 20/2                      | 30                                    |
| Janakpur Airport    | 26.7097  | 85.9172   | 76        | 76.7          | 62.0        | 7                 | 3       | 1       | 0       | 27/8                                 | 36.2         | 1.3                        | 40.8/1                     | 25.4         | 1.2                        | -                         | 31                                    |
| Jiri                | 27.6304  | 86.2321   | 1877      | 109.3         | 60.6        | 16                | 3       | 1       | 0       | 27.9/23                              | 24.0         | 0.4                        | 29.4/30                    | 11.6         | 0.4                        | 3.9/2                     | 0                                     |
| Jomsom              | 28.7840  | 83.7298   | 2741      | 24.2          | 130.3       | 6                 | 1       | 0       | 0       | 12.9/16                              | 21.5         | 0.9                        | 25/27                      | 9.4          | 1.6                        | 4.5/2                     | 0                                     |
| Jumla               | 29.2747  | 82.1796   | 2363      | 20.7          | 40.4        | 6                 | 0       | 0       | 0       | 8.6/9                                | 26.8         | 2.3                        | 29.9/27                    | 10.3         | 2.3                        | 2.8/2                     | 0                                     |
| Jumla Airport       | 29.2740  | 82.1942   | 2384      | 24.1          | -           | 6                 | 0       | 0       | 0       | 8.8/9                                | 25.9         | -                          | 29.4/27                    | 8.8          | -                          | 1.5/2                     | 0                                     |
| Kakani              | 27.8113  | 85.2674   | 2002      | 121.4         | 56.9        | 14                | 5       | 0       | 0       | 23.8/10                              | 22.9         | -0.4                       | 26.3/30                    | 14.7         | 0.6                        | 10.8/7                    | 0                                     |
| Kanyam Tea Estate   | 26.8681  | 88.0783   | 1570      | 284.0         | 134.6       | 11                | 5       | 3       | 2       | 110.8/12                             | 24.5         | 1.4                        | 28.5/25                    | 16.9         | 2.7                        | 14/6                      | 0                                     |
| Karmaiya            | 27.1330  | 85.4841   | 139       | 52.5          | 42.1        | 4                 | 3       | 0       | 0       | 19.5/12                              | 36.7         | 0.9                        | 42/29                      | 25.1         | 0.3                        | 21/3                      | 30                                    |
| Kathmandu Airport   | 27.7038  | 85.3562   | 1337      | 67.7          | 52.5        | 14                | 2       | 0       | 0       | 15.8/27                              | 30.5         | 1.4                        | 34.4/24                    | 17.5         | 1.4                        | 13.3/2                    | 19                                    |
| Khadbari            | 27.3911  | 87.2044   | 1064      | 135.3         | -           | 11                | 5       | 1       | 0       | 44.6/12                              | 30.2         | -                          | 34.5/25                    | 18.8         | -                          | 14.5/9                    | 18                                    |
| Khairini Tar        | 28.0270  | 84.0866   | 515       | 157.9         | 52.6        | 13                | 5       | 3       | 0       | 44.5/28                              | 34.0         | 0.9                        | 37.3/1                     | 20.1         | 0.0                        | 13.4/2                    | 28                                    |
| Khajura (Nepalgunj) | 28.1137  | 81.5903   | 129       | 85.4          | 148.3       | 3                 | 2       | 1       | 1       | 61.2/21                              | 38.9         | 1.2                        | 43.5/30                    | 24.3         | 1.4                        | 16.5/3                    | 31                                    |
| Khanchikot          | 27.9221  | 83.1298   | 1801      | 179.1         | 182.6       | 12                | 7       | 3       | 0       | 37.2/28                              | 25.1         | 0.7                        | 28.5/18                    | 15.8         | -0.1                       | 10.5/7                    | 0                                     |
| Khokana             | 27.6438  | 85.2967   | 1309      | 61.4          | 51.5        | 12                | 1       | 0       | 0       | 14.9/23                              | 30.1         | -                          | 33.6/30                    | 15.9         | -                          | 11/3                      | 17                                    |
| Khudi Bazar         | 28.2822  | 84.3564   | 838       | 153.8         | 68.8        | 10                | 7       | 3       | 0       | 29.4/8                               | 31.5         | 0.6                        | 34.2/30                    | 18.8         | 0.2                        | 15.7/2                    | 22                                    |
| Khumaltar           | 27.6517  | 85.3257   | 1334      | 47.6          | 41.5        | 13                | 0       | 0       | 0       | 9.2/20                               | 29.3         | 1.1                        | 33.4/30                    | 17.3         | 1.6                        | 12/3                      | 14                                    |
| Kushma              | 28.2249  | 83.6769   | 900       | 143.3         | 89.6        | 16                | 3       | 1       | 0       | 39.6/7                               | 32.7         | 0.8                        | 36.6/30                    | 19.2         | 0.8                        | 16/2                      | 28                                    |
| Lahan               | 26.7327  | 86.4776   | 110       | 82.3          | 83.7        | 6                 | 2       | 1       | 0       | 47/20                                | 35.7         | -                          | 39.5/1                     | 24.4         | -                          | 17.5/3                    | 31                                    |
| Lete                | 28.6327  | 83.6092   | 2490      | 166.8         | 123.0       | 13                | 4       | 2       | 1       | 71.2/30                              | 21.0         | -                          | 24.4/27                    | 10.0         | -                          | 4.3/2                     | 0                                     |
| Libang Gaun         | 28.3062  | 82.6323   | 1314      | 125.3         | 137.9       | 9                 | 3       | 2       | 1       | 58.3/26                              | 31.4         | -                          | 35.5/30                    | 17.5         | -                          | 12/2                      | 24                                    |
| Lumbini             | 27.4703  | 83.2761   | 95        | 33.0          | 45.1        | 5                 | 1       | 0       | 0       | 11/12                                | 37.9         | -                          | 42/25                      | 24.6         | -                          | 17.5/3                    | 29                                    |
| Lumle               | 28.2965  | 83.8179   | 1738      | 292.6         | 94.6        | 16                | 8       | 4       | 1       | 63.7/7                               | 24.8         | 1.3                        | 28.1/30                    | 15.4         | 1.1                        | 11.1/7                    | 0                                     |
| Mahendra Nagar      | 28.9548  | 80.2305   | 197       | 20.1          | 44.9        | 4                 | 0       | 0       | 0       | 9.3/13                               | 37.6         | 0.5                        | 42.2/30                    | 24.0         | 1.3                        | 14.3/2                    | 31                                    |
| Mangalsen           | 29.1361  | 81.2501   | 1310      | 125.3         | 137.8       | 10                | 5       | 2       | 0       | 26.8/28                              | 29.0         | -                          | 34.5/30                    | 17.0         | -                          | 12.6/2                    | 11                                    |
| Manma               | 29.1488  | 81.6135   | 1729      | 86.5          | -           | 12                | 2       | 1       | 0       | 32.2/29                              | 27.7         | -                          | 31.5/30                    | 16.5         | -                          | 12.8/2                    | 6                                     |
| Manthali            | 27.3947  | 86.0612   | 497       | 109.4         | 132.8       | 10                | 4       | 0       | 0       | 24.5/8                               | 35.7         | -                          | 39.6/30                    | 21.1         | -                          | 16/3                      | 29                                    |
| Manusmara           | 26.9280  | 85.4451   | 90        | 68.9          | 65.8        | 5                 | 2       | 2       | 0       | 31.4/8                               | 35.7         | 0.1                        | 41.6/1                     | 24.8         | 1.2                        | 18.2/3                    | 29                                    |
| Musikot(Rukumkot)   | 28.6190  | 82.4625   | 1412      | 107.6         | 85.3        | 8                 | 4       | 1       | 0       | 30.9/12                              | 30.9         | 1.3                        | 35.5/30                    | 17.5         | 1.4                        | 13.7/8                    | 21                                    |
| Nagarkot            | 27.6933  | 85.5209   | 2147      | -             | -           | -                 | -       | -       | -       | -                                    | 23.5         | 0.7                        | -                          | 13.5         | 1.0                        | 10/8                      | -                                     |
| Nagma               | 29.2006  | 81.9106   | 2017      | 21.1          | 32.5        | 7                 | 0       | 0       | 0       | 6.6/8                                | 25.6         | -                          | 29.8/30                    | 13.1         | -                          | 8/2                       | 0                                     |
| Nepalgunj Airport   | 28.1006  | 81.6682   | 165       | 74.3          | 125.1       | 5                 | 4       | 1       | 0       | 30.2/8                               | 38.9         | 1.0                        | 44.2/30                    | 25.0         | 2.0                        | -                         | 31                                    |
| Nepalgunj(Reg.Off.) | 28.0520  | 81.6228   | 141       | 98.3          | 166.3       | 5                 | 4       | 2       | 0       | 45.5/21                              | 39.1         | 1.5                        | 43.8/30                    | 24.5         | -0.4                       | 10.5/8                    | 31                                    |
| Nuwakot             | 27.9150  | 85.1646   | 966       | 42.6          | 34.2        | 7                 | 1       | 0       | 0       | 17/16                                | 32.7         | 1.1                        | 36.4/30                    | 21.0         | 1.3                        | 16.9/7                    | 28                                    |
| Okhaldhunga         | 27.3081  | 86.5042   | 1731      | 135.8         | 88.4        | 11                | 6       | 1       | 0       | 33.7/12                              | 26.0         | 0.8                        | -                          | 16.4         | 1.1                        | -                         | -                                     |
| Oli Gaun (Patkani)  | 29.1559  | 81.2831   | 989       | 87.0          | -           | 9                 | 5       | 0       | 0       | 17.4/22                              | 30.0         | -                          | 35.2/26                    | 15.9         | -                          | 13.6/9                    | 15                                    |
| Pakhribas           | 27.0463  | 87.2925   | 1720      | 128.3         | 84.2        | 10                | 4       | 1       | 0       | 39.9/12                              | 24.8         | 0.7                        | 28.5/29                    | 15.6         | 0.5                        | 12/9                      | 0                                     |
| Panchkhal           | 27.6451  | 85.6209   | 857       | 79.3          | 92.3        | 13                | 2       | 0       | 0       | 18.5/13                              | 33.3         | 1.2                        | 37.8/30                    | 17.8         | 0.2                        | 10.1/2                    | 27                                    |
| Parasi              | 27.5193  | 83.6622   | 112       | 170.0         | 163.7       | 6                 | 4       | 3       | 1       | 65/28                                | 36.0         | -                          | 40.5/24                    | 23.6         | -                          | 17.5/2                    | 29                                    |
| Parwanipur          | 27.0789  | 84.9327   | 87        | 112.5         | 93.3        | 7                 | 3       | 1       | 1       | 57.5/14                              | 35.7         | 0.1                        | 40.8/1                     | 24.3         | 0.7                        | 17/3                      | 29                                    |
| Patan new           | 29.4664  | 80.5506   | 1299      | 112.1         | -           | 13                | 4       | 1       | 0       | 31.5/28                              | 31.9         | -                          | 36.2/18                    | 17.5         | -                          | 10.5/22                   | 23                                    |
| Phattepur           | 26.7305  | 86.9348   | 101       | 71.0          | 45.6        | 3                 | 2       | 2       | 0       | 40/12                                | 35.2         | 0.3                        | 38.5/1                     | 23.0         | -0.1                       | 14.3/12                   | 31                                    |
| Phidim (Panchther)  | 27.1437  | 87.7656   | 1157      | 109.6         | 80.3        | 11                | 5       | 0       | 0       | 22.5/16                              | 30.9         | 1.2                        | 35.5/29                    | 18.9         | 0.5                        | 15.5/3                    | 22                                    |
| Pokhara Airport     | 28.2002  | 83.9795   | 827       | 235.8         | 66.8        | 16                | 6       | 4       | 1       | 55.7/28                              | 31.3         | 0.9                        | 34.8/24                    | 20.0         | 1.3                        | -                         | 23                                    |
| Pusma Camp          | 28.8755  | 81.2327   | 953       | 42.0          | 61.8        | 7                 | 2       | 0       | 0       | 12.3/21                              | 32.6         | 0.3                        | 37.5/30                    | 19.6         | -1.4                       | 14.5/1                    | 24                                    |
| Rajbiraj            | 26.5407  | 86.7425   | 68        | 186.1         | 142.0       | 8                 | 3       | 2       | 2       | 98.8/12                              | 34.9         | 0.6                        | 40.2/1                     | 24.6         | 1.0                        | 20.1/20                   | 28                                    |
| Rampur              | 27.654   | 84.3508   | 189       | 131.9         | 71.65       | 5                 | 3       | 3       | 0       | 42.5/31                              | 38           | 1.93                       | 42/1                       | 23           | 1.3                        | 18.5/5                    | 31                                    |
| Rara                | 29.5401  | 82.0818   | 2989      | 36.71         | -           | 9                 | 1       | 0       | 0       | 11.5/28                              | 21           | -                          | 23.5/28                    | 6.2          | -                          | 1.2/2                     | 0                                     |





**Government of Nepal**  
**Ministry of Energy, Water Resource and Irrigation**  
**Department of Hydrology and Meteorology**  
**Climate Division (Climate Analysis Section)**  
**Babarmahal, Kathmandu**

| Station         | Latitude | Longitude | Elevation | Precipitation |             |                   |         |         |         |                                      | Temperature  |                            |                            |              |                            |                           |                                       |
|-----------------|----------|-----------|-----------|---------------|-------------|-------------------|---------|---------|---------|--------------------------------------|--------------|----------------------------|----------------------------|--------------|----------------------------|---------------------------|---------------------------------------|
|                 |          |           |           | Total (mm)    | % of Normal | No. of Rainy Days |         |         |         | 24hr Highest precipitation (mm)/Date | Maximum      |                            |                            | Minimum      |                            |                           | No. of days with maximum temp. > 30°C |
|                 |          |           |           |               |             | ≥1.0mm            | ≥10.0mm | ≥25.0mm | ≥50.0mm |                                      | Average (°C) | Departure from normal (°C) | Highest temperature / Date | Average (°C) | Departure from normal (°C) | Lowest temperature / Date |                                       |
| Salleri         | 27.5051  | 86.5862   | 2383      | 136           | 135.1       | 17                | 7       | 0       | 0       | 21.5/9                               | 25           | -                          | 31/26                      | 11           | -                          | 6/2                       | 3                                     |
| Salyan Bazar    | 28.3821  | 82.1423   | 1557      | 79.61         | 164.1       | 9                 | 3       | 0       | 0       | 19.7/9                               | 30           | 0.36                       | 33.9/17                    | 18           | 0.29                       | 14.3/9                    | 16                                    |
| Semari          | 27.4682  | 83.7861   | 110       | 114.7         | 93.18       | 7                 | 3       | 2       | 0       | 44/28                                | 37           | -1.1                       | 41.5/25                    | 25           | 0.54                       | 17.5/3                    | 30                                    |
| Simara Airport  | 27.1642  | 84.98     | 137       | 99.5          | 73.43       | 7                 | 5       | 0       | 0       | 24.3/20                              | 35           | 0.23                       | 40.2/1                     | 24           | 1.29                       | -                         | 29                                    |
| Simikot         | 29.9715  | 81.8161   | 2993      | 18.57         | -           | 6                 | 0       | 0       | 0       | 8.4/21                               | 21           | -                          | 24/17                      | 8.7          | -                          | 2/2                       | 0                                     |
| Sindhuli Madhi  | 27.2281  | 85.905    | 556       | 194.1         | 93.95       | 13                | 5       | 3       | 0       | 46.8/8                               | 35           | 2.44                       | 38.2/1                     | 20           | -0.78                      | 11.3/1                    | 31                                    |
| Siraha          | 26.6561  | 86.2117   | 63        | 92            | 74.92       | 7                 | 3       | 1       | 0       | 26.7/8                               | 36           | -                          | 41/25                      | 25           | -                          | 21/1                      | 31                                    |
| Surkhet Airport | 28.5879  | 81.6352   | 683       | 70.71         | 87.4        | 8                 | 3       | 0       | 0       | 18.3/9                               | 36           | 1.56                       | 41/30                      | 22           | 1.06                       | -                         | 30                                    |
| Syangja         | 28.0988  | 83.8722   | 871       | 336.42        | 118.9       | 19                | 9       | 6       | 1       | 68.2/7                               | 32           | 1.75                       | 37.3/1                     | 19           | 1.05                       | 13.4/2                    | 26                                    |
| Tamghas         | 28.0636  | 83.2435   | 1547      | 102.11        | 71.46       | 12                | 4       | 0       | 0       | 23.8/19                              | 27           | 0.33                       | 31/30                      | 17           | 1                          | 12.5/8                    | 3                                     |
| Tansen          | 27.8637  | 83.5387   | 1183      | 85.84         | 92.6        | 10                | 3       | 0       | 0       | 22.8/13                              | 30           | 0.09                       | 34.6/1                     | 20           | 1.97                       | 15/8                      | 21                                    |
| Taplejung       | 27.3586  | 87.67     | 1744      | 146.63        | 62.99       | 13                | 3       | 3       | 1       | 50.2/19                              | 25           | 1.07                       | 29/25                      | 16           | 0.9                        | -                         | 0                                     |
| Tarahara        | 26.6987  | 87.2786   | 120       | 225.22        | 122.8       | 9                 | 7       | 4       | 1       | 57/12                                | 35           | 1.53                       | 38.6/25                    | 23           | 0.27                       | 15.6/3                    | 30                                    |
| Taulihawa       | 27.5711  | 83.0672   | 106       | 47.11         | 86.76       | 5                 | 2       | 0       | 0       | 24.4/8                               | 38           | 0.46                       | 41.5/16                    | 25           | 2.14                       | 16.7/3                    | 29                                    |
| Terhathum       | 27.123   | 87.5362   | 1525      | 121.01        | 88.26       | 11                | 5       | 1       | 0       | 32.7/20                              | 26           | 0.43                       | 30/29                      | 17           | -                          | 13.5/9                    | 1                                     |
| Thakmarpha      | 28.7409  | 83.6816   | 2655      | 28.68         | 86.13       | 7                 | 1       | 0       | 0       | 13.3/16                              | 20           | 0.45                       | 23/24                      | 7.1          | -0.24                      | 2.5/2                     | 0                                     |
| Tikapur         | 28.5366  | 81.115    | 149       | 36.83         | 48.91       | 2                 | 2       | 1       | 0       | 25/21                                | 39           | 1.39                       | 45.2/30                    | 23           | 0.59                       | 14.8/2                    | 31                                    |
| Udayapur Gadhi  | 26.913   | 86.5397   | 469       | 129.7         | 92.31       | 10                | 4       | 2       | 0       | 44.4/19                              | 34           | 1.4                        | 38.5/1                     | 22           | -0.4                       | -                         | 29                                    |

Note:

- “mm” = millimeter; “temp” = temperature; “-” = Data Not Available.
- This summary is prepared based on the precipitation and temperature received at 112 meteorological stations during May, 2024. Out of 112 stations, 99 stations have normal precipitation data, 71 stations have normal maximum and 67 stations have normal minimum temperature data. Normal precipitation/temperature is the average of the monthly precipitation/temperature for period of 1991-2020.
- Less than 90% of normal precipitation is considered as below normal, 90 to 110% is considered as near normal, and more than 110% of normal precipitation is considered as above normal precipitation for the month.