

# Government of Pakistan Pakistan Meteorological Department

# Pakistan's Monthly Climate Summary July, 2022

#### In brief

- National rainfall for the month of July 2022 was largely (+180%) above average and stands as record wettest July since 1961.
- July 2022 monthly rainfall alone exceeded the total normal monsoon seasonal rainfall by 26%.
- July 2022 rainfall was excessively above average over Balochistan (+450%) & Sindh (+307%), both rank as the wettest ever during past 62 years.
- Monthly rainfall was largely above average over Punjab (+116%) which stood second as wettest month, above average over GB (+32%) & KP (+30%) and nearly average over AJK (-7%).
- The torrential rain caused massive flash floods in Balochistan, Sindh and southwest Punjab, inflicting huge loss of human lives and properties.
- The wettest day of the month in the country was 25<sup>th</sup> July, when Badin (Sindh) recorded 219.0mm rainfall, whereas the wettest place with highest monthly total of 584.8mm at PAF Masroor, Karachi.
- The national mean monthly temperature of July 2022 for Pakistan as a whole was 29.93 °C, being 1.34°C cooler than monthly-average of 31.27 °C.
- Daytime (maximum) temperature at country-level was 35.07 °C, being 2.15 °C cooler than average of 37.23 °C.
- The nighttime (minimum) temperature was 24.83 °C, being 0.47 °C cooler than country-average of 25.30 °C.
- The hottest day of the month was at Nokkundi (Balochistan) when it recorded 48.0 °C temperature on 2<sup>nd</sup> July 2022.
- Coldest temperature of 10.0 °C of the month was recorded at Kalam (KP) on 16<sup>th</sup> & 17<sup>th</sup> July 2022.
- The Indian Ocean Dipole (IOD) remained mostly negative during the month.
- The La Niña conditions have been persisting through almost 3<sup>rd</sup> year, one of the rare phenomena being described as Triple-dip La Niña and is likely to prevail through this summer.

### National weather extremes during July 2022

| Hottest day   | 48.0 °C  | at Nokkundi (Balochistan) on the 2 <sup>nd</sup>                                   |
|---------------|----------|--|
| Coldest day   | 18.5 °C  | at Gupis (GB) on the 15 <sup>th</sup> & at Malamjabba (KP) on the 24 <sup>th</sup> |
| Coldest night | 10.0 °C  | at Kalam (KP) on the $16^{th}$ & $17^{th}$   |
| Warmest night | 33.5 °C  | at Nokkundi (Balochistan) on the 2 <sup>nd</sup>                                   |
| Wettest day   | 219.0 mm | at Badin (Sindh) on the 25 <sup>th</sup>   |
| Wettest month | 584.8 mm | at PAF Masroor (Sindh)   |

#### July, 2022 Area-Weighted Rainfall [Rank ranges from 1 (lowest) to 62 (highest)]

|                      | Rank<br>(of 62) | Normal<br>(mm) | Average<br>(mm) | Departure<br>(percent) | Comment  |
|----------------------|-----------------|----------------|-----------------|------------------------|--|
| Pakistan             | 62              | 63.1           | 177.5           | 180.4                  | 1 <sup>st</sup> highest (record 153.3 mm in 1978)  |
| Azad Jammu & Kashmir | 37              | 173.9          | 161.9           | -6.9                   | 26 <sup>th</sup> highest (record 379 mm in 1988)   |
| Balochistan          | 62              | 29.7           | 163.3           | 450.3                  | 1 <sup>st</sup> highest (record 95.4 mm in 1978)   |
| Gilgit Baltistan     | 46              | 13.3           | 17.6            | 31.9                   | 17 <sup>th</sup> highest (record 44.2 mm in 1993)  |
| Khyber Pakhtunkhwa   | 50              | 106.7          | 138.8           | 30.1                   | 13 <sup>th</sup> highest (record 289.8 mm in 2010) |
| Punjab               | 61              | 104.1          | 224.3           | 115.5                  | 2 <sup>nd</sup> highest (record 244.9 mm in 1978)  |
| Sindh                | 62              | 60.1           | 244.9           | 307.0                  | 1 <sup>st</sup> highest (record 233.9 mm in 2003)  |

#### Synoptic Summary

The Monsoon 2022 set on in the country from 30<sup>th</sup> June, one day earlier than its normal onset date of 1<sup>st</sup> July when strong moist currents from the Arabian Sea started penetrating into southern Sindh from 1<sup>st</sup> July which spread over upper and central parts of the country from 6<sup>th</sup> July, in addition the moist currents from the Bay of Bengal also kept entering in the country and these features lasted almost through the entire month. Meanwhile, the seasonal/heat low continued to prevail over North/Northwest Balochistan with its trough stretched southeastwards. The heat low behaved bit differently with being more deepened, owing to prolonged high temperatures in planes of the country, and oriented over west Balochistan most of the time which resultantly pulled more moist currents towards Balochistan. On the other hand, a monsoon low-pressure area developed over southern areas Punjab on 7<sup>th</sup> July and prevailed till 15<sup>th</sup> July.

Another monsoon low developed over Gulf of Kutch (India) on 16<sup>th</sup> July which converted into a depression on 17<sup>th</sup> and lay over Northeast Arabian Sea-Gulf of Kutch, India. Having moved northwestward, the depression first reduced to a well-marked low over North Arabian Sea the next day and then into a low-pressure area which ultimately moved westwards towards the Oman coast on 19<sup>th</sup> July. A fresh low-pressure area formed over southeast Sindh and adjoining areas on 22<sup>nd</sup> and persisted till 27<sup>th</sup> July which produced heavy rains in central and southern Sindh including Karachi leading to urban flooding in Karachi, Thatta & Badin districts. Overall, the monsoon axis (a line stretching from the seasonal low's centre to the Bay of Bengal in the east) remained to the south of its normal position.

#### Rainfall, largely above average over the country.

Monsoon 2022 season set on in northern parts of the country on 30<sup>th</sup> June, a day earlier than its normal date. During July 2022, three widespread rainy spells were experienced. Climatologically the July considered to be most wet month of the year. With 181% above average rainfall, July 2022 happened to be an excessive-rain month with 177.5mm (areaweighted) rain against its normal



of 63.1mm and stood as record wettest July since 1961. On average, the July rainfall contribution is of the order of 45% and 21% to the Monsoon (JAS) and annual rainfall respectively. It is pertinent to mention that on regional scale, Balochistan (163.3mm/+450%) & Sindh (244.9mm/+307%) witnessed excessively above average rain during the month, both ranking as the wettest month ever during past 62 years. It was largely above average over Punjab (+116%) and stood as the second wettest month, above average over GB (17.6mm/+32%) & KP (138.8mm/+30%). The AJK with (161.9mm/-7%) was the only region having near to normal rain. The wettest day of the month in the country was 25<sup>th</sup> July, when Badin (Sindh) recorded 219.0mm, whereas, the PAF Masroor, Karachi remained the wettest place with monthly total of 584.8mm.



The other significant monthly-total rains recorded at Islamabad Airport 573.3mm, Padidan 535.4mm, Gujranwala 494mm, Islamabad (old Airport) 481.9mm, Takht bai 456.2mm, Islamabad Zero Point 449mm, Gujrat 424mm, Sialkot Cantt 423.1mm, Lasbela 404.7mm, Mangla 391.2mm, Jhelum 383.7mm, Chakwal 383.6mm, Kotli 360mm, Murree 356mm, Sialkot airport 352.4mm and Balakot 352.4mm. The Chilas and Nokkundi were the only two stations which remained dry with no rain at all during the month.

| <b>SNo</b>         | CTATION                  | Weathan Davantan                   | New   | Record Set    | Past Record |               |  |
|--------------------|--------------------------|------------------------------------|-------|---------------|-------------|---------------|--|
| SINO               | STATION                  | weather Paramter                   | Value | Month/date    | Value       | Month/Date    |  |
| 1                  | Badin                    | Wettest Month rain (mm)            | 335.7 | Jul-2022      | 302.9       | Jul-2003      |  |
|                    |                          | Coldest Day temperature (°C)       | 29.0  | 08-Jul-2022   | 29.5        | (02)-Jul-2002 |  |
| 2                  | Gawadar                  | Wettest Month rain (mm)            | 153.2 | Jul-2022      | 39.0        | Jul-2021      |  |
|                    |                          | Heaviest Rainfall in 24 hours (mm) | 58.0  | 06/2022       | 35.0        | 15/2021       |  |
| 3                  | Jacobabad                | Coldest Day temperature (°C)       | 31.0  | 25-Jul-2022   | 31.0        | 27-Jul-2015   |  |
| 4                  | Lasbella                 | Wettest Month rain (mm)            | 404.7 | Jul-2022      | 353.7       | Jul-2003      |  |
| E                  | Ormara                   | Wettest Month rain (mm)            | 221.0 | Jul-2022      | 185.2       | Jul-1978      |  |
| 5                  | Offilara                 | Heaviest Rainfall in 24 hours (mm) | 62.0  | 27-Jul-2022   | 57.4        | 06-Jul-1960   |  |
| 6                  | Padidan                  | Wettest Month rain (mm)            | 535.4 | Jul-2022      | 207.0       | Jul-1956      |  |
| 7 Pa               | Papigur                  | Coldest Day temperature (°C)       | 26.5  | 26-Jul-2022   | 27.0        | 16-Jul-1978   |  |
|                    | Panjgur                  | Wettest Month rain (mm)            | 186.0 | Jul-2022      | 144.0       | Jul-1945      |  |
| 8                  | Pasni                    | Wettest Month rain (mm)            | 167.3 | Jul-2022      | 159.5       | Jul-1956      |  |
|                    |                          | Hottest Day temperature (°C)       | 41.5  | (2)-Jul-/2022 | 41.5        | 16-Jul-1968   |  |
| 9 Quetta<br>(Sheik | Quetta<br>(Sheikh Manda) | Coldest Day temperature (°C)       | 27.5  | 25-Jul-2022   | 27.0        | 17-Jul-1994   |  |
|                    |                          | Wettest Month rain (mm)            | 67.0  | Jul-2022      | 43.0        | Jul-2003      |  |
|                    |                          | Heaviest Rainfall in 24 hours (mm) | 30.0  | 05/2022       | 26.0        | 23-Jul-1997   |  |
| 10                 | Sibi                     | Wettest Month rain (mm)            | 159.0 | Jul-2022      | 139.2       | Jul-1959      |  |
| 11                 | Sukkur Airport           | Coldest Day temperature (°C)       | 30.5  | 26-Jul-2022   | 30.5        | 26-Jul-2015   |  |
| 11                 |                          | Wettest Month rain (mm)            | 175.0 | Jul-2022      | 117.6       | Jul-2003      |  |
| 12                 | Turbat                   | Wettest Month rain (mm)            | 119.0 | Jul-2022      | 65.4        | Jul-2003      |  |
| 12                 | Turbat                   | Heaviest Rainfall in 24 hours (mm) | 41.3  | 27-Jul-2022   | 36.6        | 28-Jul-2003   |  |
| 13                 | Bahawalnagar             | Wettest Month rain (mm)            | 297.0 | Jul-2022      | 263.1       | Jul-1995      |  |
| 1.4                | Rahim Yar Khan           | Wettest Month rain (mm)            | 191.8 | Jul-2022      | 121.0       | Jul-2015      |  |
| 14                 |                          | Heaviest Rainfall in 24 hours (mm) | 58.0  | 22-Jul-2022   | 55.0        | 02-Jul-2015   |  |
| 15                 | PAF Masroor              | Wettest Month Rain (mm)            | 584.8 | Jul-2022      | 509.3       | Jul-1967      |  |

#### New weather Record Set in July 2022

#### Temperatures: Cooler than Normal temperatures observed over the country.

The national mean monthly temperature of July 2022 for Pakistan as a whole was 29.93 °C, being 1.34 °C cooler than average of 31.27 °C. Similarly on regional scale AJK recorded 26.19 °C, Balochistan 29.82 °C, GB 27.76 °C, KP 28.49 °C, Punjab 31.10 °C and Sindh 31.06 °C.

The mean temperature anomalies; Balochistan (-2.07 °C), Punjab (-1.45 °C), Sindh (-1.39 °C) and KP (-1.0°C) all recorded cooler than average temperatures, except GB (+1.17 °C) & AJK (+0.53 °C), being little warmer than average for the month.

The July 2022 mean maximum (daytime) temperature of 35.07 °C was recorded at countrylevel being 2.15 °C cooler than average of 37.23 °C. The average night (minimum) temperature of 24.83 °C, being 0.47 °C cooler than country-average of 25.30 °C, during the month. The mean temperature anomalies of July 2022 lies between +2.5 to -3.5 °C in the country. The Mean Maximum temperature anomalies were +2 to -5 °C in the country. The maximum temperature anomalies over GB & AJK were considerably higher. The hottest day of the month was at Nokkundi (Balochistan) when it recorded 48.0 °C temperature on 2<sup>nd</sup> July. The coldest temperature of 10.0 °C of the month was recorded at Kalam (KP) on 16<sup>th</sup> & 17<sup>th</sup> July 2022.



# July 2022 Temperature maps

## July 2022 Monthly Averages & Normals

|              | Due source (male )      |                  |                      | •            | (0.0)        |              |              |            |
|--------------|-------------------------|------------------|----------------------|--------------|--------------|--------------|--------------|------------|
| Station      | Station Level Seg Level |                  | Mean Maximum Minimum |              |              | Vapour (mb)  | Total (mm)   | on<br>Dave |
|              |                         | Sed Level        | Mean                 | Maximum      |              | riessure     |              | Duys       |
| Drosh        | 845.1<br>844.3          | 1412.4<br>1404.2 | 30.7<br>30.1         | 37.8<br>36.9 | 23.6<br>23.3 | 16.5<br>14.9 | 11.8<br>22.1 | 5<br>5.4   |
|              | 964.3                   | 1000.3           | 30.6                 | 35.1         | 25.9         | 32.9         | 68.0         | 5          |
| Peshawar     | 956.5                   | 995.3            | 32.1                 | 37.7         | 26.5         | 27.9         | 46.1         | 6.9        |
|              | 825.1                   | 1467.7           | 21.8                 | 29.6         | 14.0         | 13.0         | 102.0        | 7          |
| Parachinar   | 821.2                   | 1424.4           | 24.0                 | 29.8         | 18.2         | 17.6         | 99.4         | 11.9       |
|              | 945.8                   | 1001.2           | 28.5                 | 32.1         | 24.7         | 27.9         | 481.9        | 17         |
| Rawalpindi   | 9/1 9                   | 996.9            | 20.5                 | 3/ 8         | 24.7         | 27.3         | 305.3        | 15.6       |
|              | 979.2                   | 999 /            | 20.0                 | 35.5         | 24.2         | 35.0         | 133 5        | 10         |
| Sargodha     | 076.7                   | 006.7            | 31.4<br>33 E         | 27.0         | 27.2         | 20.2         | 112.6        | 10         |
|              | 970.7                   | 990.7            | 32.5                 | 37.9         | 27.2         | 30.3         | 202.7        | 9.5        |
| Jhelum       | 975.0                   | 999.0            | 29.9                 | 55.0<br>25.0 | 20.2         | 54.0<br>20.1 | 202.7        | 10 1       |
|              | 971.1                   | 990.8            | 30.7                 | 35.0         | 25.9         | 30.1         | 203.2        | 15.5       |
| Sialkot      | 972.2                   | 1000.4           | 29.4                 | 32.9         | 25.8         | 33.8         | 423.1        | 1/         |
|              | 969.4                   | 997.4            | 29.8                 | 34.4         | 25.2         | 30.6         | 304.1        | 15.1       |
| Zhob         | 851.8                   | 1423.8           | 28.2                 | 33.3         | 23.1         | 20.7         | 139.0        | 9          |
|              | 848.3                   | 1395.1           | 29.5                 | 35.9         | 23.1         | 17.5         | 61.1         | 5.1        |
| D.I.Khan     | 979.8                   | 998.7            | 32.7                 | 37.4         | 28.0         | 34.7         | 66.9         | 6          |
|              | 976.7                   | 995.5            | 32.5                 | 38.4         | 26.6         | 30.6         | 60.5         | 5.9        |
| Lahore       | 976.5                   | 1000.2           | 30.7                 | 34.3         | 27.1         | 33.4         | 207.0        | 13         |
|              | 973.2                   | 996.6            | 31.3                 | 35.7         | 26.8         | 30.7         | 212.1        | 13.1       |
| Quetta       | 835.6                   | 1438.3           | 27.8                 | 33.2         | 22.5         | 18.2         | 63.0         | 12         |
|              | 832.6                   | 1408.0           | 28.0                 | 36.1         | 20.3         | 14.3         | 16.3         | 1.9        |
| Multan       | 985.1                   | 998.7            | 32.4                 | 36.4         | 28.2         | 34.0         | 183.1        | 9          |
|              | 982.3                   | 995.7            | 33.8                 | 39.0         | 28.7         | 30.4         | 60.3         | 4.4        |
| Barkhan      | 882.5                   | 1427.0           | 27.8                 | 32.4         | 23.1         | 24.6         | 141.0        | 13         |
| Dankhah      | 880.7                   | 1410.9           | 29.7                 | 35.5         | 23.8         | 22.2         | 109.3        | 7.7        |
| Nokkundi     | 921.0                   | 991.9            | 36.3                 | 42.7         | 29.9         | 9.7          | 0.0          | 0          |
|              | 921.5                   | 992.2            | 35.1                 | 43.1         | 28.6         | 13.4         | 2.0          | 0.2        |
| Dalbandin    | 905.9                   | 1416.9           | 33.8                 | 41.0         | 26.5         | 16.6         | 32.2         | 7          |
| Baild arrain | 904.7                   | 1397.2           | 34.3                 | 42.1         | 24.9         | 10.4         | 7.2          | 0.2        |
| lacobabad    | 992.1                   | 998.3            | 32.3                 | 38.2         | 26.5         | 33.2         | 290.0        | 14         |
| Jacobabaa    | 989.2                   | 995.2            | 34.6                 | 40.2         | 29.1         | 31.4         | 42.8         | 2.1        |
| Khannur      | 988.4                   | 998.2            | 32.0                 | 36.6         | 27.4         | 36.3         | 300.4        | 14         |
| Kildipol     | 985.9                   | 995.7            | 33.3                 | 39.6         | 27.0         | 29.9         | 25.8         | 2.6        |
| Paniaur      | 893.2                   | 1416.1           | 28.0                 | 33.5         | 22.5         | 24.4         | 186.0        | 12         |
| i dijgol     | 893.6                   | 1419.9           | 31.8                 | 38.9         | 24.8         | 10.7         | 21.2         | 1.7        |
| Khuzdar      | 869.3                   | 1427.5           | 26.7                 | 32.4         | 21.1         | 9.3          | 237.1        | 17         |
| KIIOZGGI     | 863.3                   | 1394.2           | 30.3                 | 36.5         | 24.1         | 8.9          | 60.5         | 5          |
| Nawabshah    | 994.8                   | 998.1            | 32.4                 | 37.6         | 27.1         | 33.2         | 158.8        | 11         |
|              | 992.6                   | 996.3            | 34.0                 | 40.5         | 27.4         | 33.0         | 50.9         | 1.3        |
| liwani       | 993.0                   | 999.3            | 28.7                 | 32.4         | 24.9         | 32.2         | 63.0         | 7          |
| JIWUIII      | 991.9                   | 998.2            | 29.5                 | 32.4         | 26.8         | 31.1         | 8.6          | 0.2        |
| Pasni        | 999.0                   | 999.5            | 29.2                 | 32.6         | 25.8         | 34.4         | 167.3        | 9          |
|              | 997.1                   | 997.7            | 29.2                 | 33.3         | 27.2         | 31.0         | 5.0          | 0.5        |
| Hyderabad    | 994.1                   | 998.9            | 30.8                 | 34.5         | 27.1         | 33.2         | 247.0        | 15         |
| nyuelubuu    | 993.3                   | 996.8            | 32.5                 | 37.3         | 27.7         | 30.2         | 45.5         | 2          |
| Chhor        | 998.3                   | 999.0            | 30.9                 | 35.2         | 26.6         | 34.9         | 254.0        | 10         |
| Child        | 996.8                   | 997.4            | 31.4                 | 36.4         | 26.4         | 31.1         | 79.3         | 3.3        |
| Karachi      | 997.0                   | 999.7            | 30.3                 | 33.2         | 27.4         | 34.5         | 348.3        | 16         |
| Kuruchi      | 996.2                   | 998.9            | 30.3                 | 33.1         | 27.5         | 31.3         | 66.3         | 3.4        |

Note: The first row against each station contains the actual values while second row for normal values

| STATION    | Mean Temperature (°C) |      |        |      | Temperature (°C) |      |        |      | Highest (mm & knots) |      |            |      |
|------------|-----------------------|------|--------|------|------------------|------|--------|------|----------------------|------|------------|------|
| STATION    | Highest               | Date | Lowest | Date | Highest          | Date | Lowest | Date | Rain                 | Date | Wind Speed | Date |
| Drosh      | 35.4                  | 1    | 24.5   | 16   | 43.8             | 1    | 16.3   | 15   | 5.0                  | 24   | 14         | 1*   |
| Peshawar   | 34.3                  | 19   | 26.0   | 29   | 40.7             | 18   | 21.0   | 22   | 38.0                 | 22   | 8          | 1    |
| Parachinar | 25.3                  | 3    | 18.0   | 26   | 34.0             | 3    | 11.0   | 26*  | 35.0                 | 16   | 6          | 1*   |
| Rawalpindi | 32.3                  | 19   | 24.7   | 21   | 36.7             | 19   | 20.6   | 13   | 84.5                 | 13   | 35         | 9    |
| Sargodha   | 35.1                  | 3*   | 27.8   | 14   | 40.2             | 3*   | 24.0   | 7*   | 30.6                 | 22   | 6          | 1*   |
| Jhelum     | 34.1                  | 19   | 25.2   | 14   | 39.8             | 19   | 22.4   | 31   | 111.0                | 14   | 12         | 28   |
| Sialkot    | 32.5                  | 19   | 24.3   | 14   | 37.4             | 18   | 23.0   | 14   | 156.2                | 21   | 6          | 12   |
| Zhob       | 33.5                  | 1    | 23.5   | 22   | 39.0             | 1*   | 19.5   | 8    | 51.0                 | 24   | 13         | 27*  |
| D.I.Khan   | 36.3                  | 5*   | 27.3   | 22   | 42.5             | 8    | 25.0   | 22   | 26.0                 | 24   | 6          | 5*   |
| Lahore     | 34.0                  | 5*   | 25.8   | 21   | 39.0             | 7    | 23.0   | 21   | 62.0                 | 21   | 12         | 14   |
| Quetta     | 33.0                  | 1*   | 24.5   | 7*   | 40.5             | 1*   | 19.5   | 7*   | 18.0                 | 7    | 34         | 19   |
| Multan     | 36.4                  | 5    | 25.8   | 22   | 40.7             | 5    | 23.0   | 22   | 36.6                 | 7    | 16         | 1*   |
| Barkhan    | 31.5                  | 1    | 24.3   | 24   | 37.0             | 1    | 21.0   | 7*   | 47.0                 | 9    | 4          | 2*   |
| Nokkundi   | 40.8                  | 2    | 32.3   | 26   | 48.0             | 2    | 27.0   | 27*  | 0.0                  | 0    | 20         | 13*  |
| Dalbandin  | 40.3                  | 2    | 29.0   | 7    | 47.5             | 2    | 20.0   | 9    | 11.0                 | 25   | 14         | 10   |
| Jacobabad  | 36.5                  | 2    | 28.5   | 24   | 44.0             | 1*   | 24.5   | 7    | 45.0                 | 25   | 22         | 14   |
| Khanpur    | 36.4                  | 2    | 26.6   | 24   | 41.8             | 5    | 23.5   | 15   | 61.0                 | 7    | 8          | 6*   |
| Panjgur    | 33.0                  | 3    | 24.5   | 25*  | 40.5             | 3    | 20.0   | 27   | 40.0                 | 7    | 14         | 1*   |
| Khuzdar    | 32.3                  | 1*   | 24.3   | 7*   | 39.0             | 3    | 18.0   | 30*  | 90.4                 | 25   | 8          | 10   |
| Nawabshah  | 35.8                  | 1*   | 28.5   | 25   | 43.5             | 1    | 24.5   | 16   | 65.0                 | 16   | 16         | 21   |
| Jiwani     | 30.3                  | 3*   | 26.3   | 26   | 35.0             | 18*  | 23.0   | 8*   | 34.0                 | 6    | 12         | 15*  |
| Pasni      | 31.8                  | 17   | 27.0   | 25   | 37.5             | 17   | 25.0   | 9*   | 43.0                 | 26   | 6          | 13*  |
| Hyderabad  | 34.1                  | 4    | 28.5   | 26   | 39.3             | 4    | 25.5   | 7    | 59.0                 | 7    | 16         | 1*   |
| Chhor      | 34.3                  | 5    | 27.5   | 26   | 40.0             | 5    | 24.0   | 6    | 88.0                 | 15   | 12         | 1*   |
| Karachi    | 32.8                  | 4*   | 27.8   | 25   | 37.5             | 14   | 25.0   | 12   | 81.7                 | 25   | 16         | 16*  |

#### July 2022 extreme values

\* means value occurred multiple times

#### <u>Note</u>

Monthly Climate Summary is produced by Pakistan Meteorological Department, Climate Data Processing Centre, Karachi to provide the main features of weather events occurred in the country during the month. The summary contains detailed data information of 25 climate stations of Pakistan. The extremes & analysis is based on 110 numbers of stations. The information in the summary is based on real time data and/or electronic reports, therefore, the above results can be considered only preliminary. Climate Summaries are usually published in the first week of each month. Long term average for rainfall is for 1961-2010 (50 years) while normal period for temperature is 1961-1990 (30 years).

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Published on 3<sup>rd</sup> August, 2022