



Government of Pakistan
Pakistan Meteorological Department
Pakistan Monthly Climate Summary
January 2025

In brief

- The national area-weighted rainfall of 8.5 mm was excessively below average with a negative anomaly of **-55%** in January-2025.
- The heaviest one-day rainfall of 72.6 mm occurred at Chitral (KP) on 5th January. Coincidentally, the same station has been the wettest place with monthly total of 146.9 mm.
- The national mean monthly temperature of 11.92 °C for Pakistan was **warmer by +0.69 °C** than the country-average of 11.24 °C.
- The daytime (maximum) temperature (19.58 °C) at country-level also happened to be **warmer by +1.24 °C** than the country-average of 18.34 °C.
- The country-level nighttime (minimum) temperature of 4.25 °C too was **warmer by +0.56 °C** than the countrywide average of 3.69 °C.
- The **hottest** day of the month was observed at Mithi (Sindh) on 29th January when it recorded a maximum temperature of **32.5 °C**. Whereas the same station, proved to be the **warmest** place with a mean monthly maximum temperature of **28.2 °C**.
- The **coldest** night temperature of **-12.0 °C** of the month was recorded at Astore (GB) on 9th. Whereas, the station Gupis happened to be the **coolest** place with mean monthly minimum temperature of **-8.0 °C**.
- The El Niño–Southern Oscillation (ENSO) has shifted a bit more to La Niña with sea surface temperatures (SSTs) being around -0.6 °C over the central equatorial Pacific Ocean and likely fall further.
- The Indian Ocean Dipole (IOD) is slightly inclined to negative phase.

Table-1: National Weather Extremes during January 2025

Hottest day	32.5 °C	at Mithi (Sindh) on 29 th
Coldest day	0.5 °C	at Astore (GB) on 9 th
Coldest night	-12.0 °C	at Astore (GB) on 9 th
Warmest night	17.5 °C	at Turbat (Balochistan) on 19 th
Wettest day	72.6 mm	at Chitral (KP) on 5 th
Wettest month	146.9 mm	at Chitral (KP)

Synoptic Summary

The dry continental air with dense foggy conditions remained a predominant feature over most parts of the country during the month. However, four weak intensity westerly waves approached the county during 1-6, 11-12, 17-21 & 28 -31 January, which gripped Khyber Pakhtunkhwa (KP), Gilgit-Baltistan (GB), Azad Jammu and Kashmir (AJK), Northern Punjab and Northwest Balochistan. These waves caused few moderate/isolated heavy rainfall & light/moderate snow over hills of KP, GB, AJK, Northern areas of Punjab, Northwest/east Balochistan & Makran coast during the month. Apart from these days, a high-pressure area persisted over the country that caused a cold wave & dense fog over plain areas in Punjab and Sindh.

Table-2: New Temperature Records Set in January 2025

S No	Stations	Weather Parameters	New Record		Old Record		No of years examined.
			Value	Date	Value	Date	
1	CHITRAL	Wettest month rainfall(mm)	146.9	Jan-2025	131.1	Jan-1992	60
2	ASTORE	Hottest night Temperature (°C)	3.0	05/Jan/2025	2.8	21/Jan/1988	65
3	DADU	Hottest day Temperature (°C)	27.5	28/Jan/2025	27.0	31/Jan/2019	22
4	G.DOPATTA	Hottest day Temperature (°C)	25.5	27/Jan/2025	25.2	31/Jan/2007	65
5	MIRPUR KHAS	Hottest day Temperature (°C)	31.5	28/Jan/2025	31.5	15/Jan/2018	22

Rainfall: Excessively below Average across the country.

Climatologically, January is considered as an average rainy month with rainfall contribution to the national annual total and season (Jan-Mar, JFM) being 6.5% and 25.5%, respectively. During the month, Pakistan experienced three rain spells of light intensity (2-7 Jan, 19-23 Jan & 29-30 Jan). The daily area-averaged rainfall is shown in Fig-1. The January 2025 with just 8.5 mm rain was **excessively below average** with an anomaly of **-55%** for Pakistan as a whole. On regional scale, even worst situation prevailed in Sindh and Punjab, where, former with only 0.1 mm (**-96%**) and later with only 1.3 mm (**-92%**) both have recorded **extremely below-average** rainfall with Punjab recorded its 7th driest January (the driest one with 0.0 mm been in three different years 1963, 1966 & 1967). AJK with 22.8 mm (**-64%**) experienced **excessively below-average** rainfall, Balochistan with 9.5 mm (**-48%**) and KP with 25.8 mm (**-40%**) recorded **well below average** followed by GB with 12.3 mm (**-21%**) (Table-3). The heaviest one-day rainfall of 72.6 mm occurred at Chitral (KP) on 5th January and coincidentally the same station has been the wettest place with monthly total 146.9 mm (Table-1).

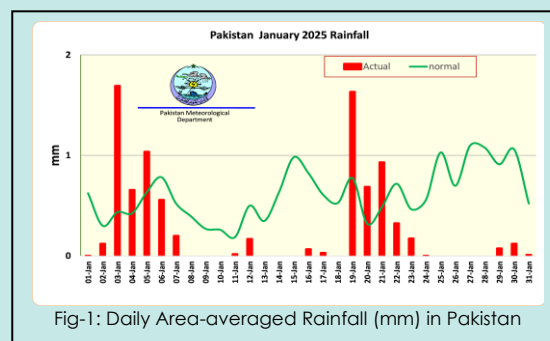


Fig-1: Daily Area-averaged Rainfall (mm) in Pakistan

Table-3: January 2025 Area Weighted Rainfall

Region	Rank (of 65y)	Normal (mm)	Average (mm)	Departure (percent)	Comment
Pakistan	20	18.9	8.5	-55	----
Azad Jammu & Kashmir	16	63.6	22.8	-64	----
Balochistan	27	18.0	9.5	-48	----
Gilgit Baltistan	34	15.6	12.3	-21	----
Khyber Pakhtunkhwa	23	43.1	25.8	-40	----
Punjab	07	15.5	1.3	-92	07 th driest (The driest 0.0mm rainfall recorded in 1963, 1966 & 1967)
Sindh	16	2.8	0.1	-96	----

[RANK RANGES FROM 1 (LOWEST) TO 65 (HIGHEST) IN TERMS OF YEARS FROM 1961]

Barring the wettest station Chitral (KP), some other stations have recorded rainfall in double figures, i.e. Mirkhani 98.5 mm, Dir 92.5 mm, Kalam 88.8 mm, Drosh 85.6 mm, Pattan 58.0 mm, Malam Jabba 42.3 mm, Dalbandin 42.0 mm, Astore 39.5 mm, Muzaffarabad Airport 26.7 mm, Muzaffarabad City 26.0 mm, Kalat 26.0 mm, Balakot 25.0 mm, Kakul 25.0 mm, Garhi Dupatta 20.7 mm, Narowal 18.9 mm, Quetta (Sh. Manda) 18.8 mm, Gupis 16.2 mm, Saidu Sharif 13.9 mm, Jiwani 13.0 mm, Quetta (Samungli) 13.0 mm, Bagrote 12.2 mm and Okara 12.0 mm.

Whereas the stations: Bhakkar, Chaklala Airbase, Islamabad Zeropoint, Kamra Airbase, Mianwali Airbase, Multan Airport, Mangla, Sargodha Airbase, Sargodha City, Chilas, D-I-Khan (City), Bacha Khan A/P and Turbat recorded only traces of rainfall during the month.

On the other hand a large number of stations remained absolutely dry in the month i.e. Bahawalpur City, Bahawalpur Airport, Chakwal, Faisalabad Airport, Jhang, Joharabad, Khanpur, Kot Addu, Layyah, Mandibahauddin, Multan City, Noorpur Thal, Rahim Yar Khan, Shorkot Airbase, T.T. Singh, Hafizabad, Khanewal, Hunza, D-I-Khan (Airport), Badin, Chhor, Hyderabad Airport, Jacobabad, Karachi Airport, Larkana,

Mithi, Shaheed Benazirabad, Padidan, Rohri, Sukkur, Mohenjo Daro, Thatta, Dadu, Tandojam, Sakrand, Khairpur, Khuzdar, Lasbela, Pasni, Ormara, Faisal Base and Masroor recorded no rain during the month.

January 2025 Rainfall maps

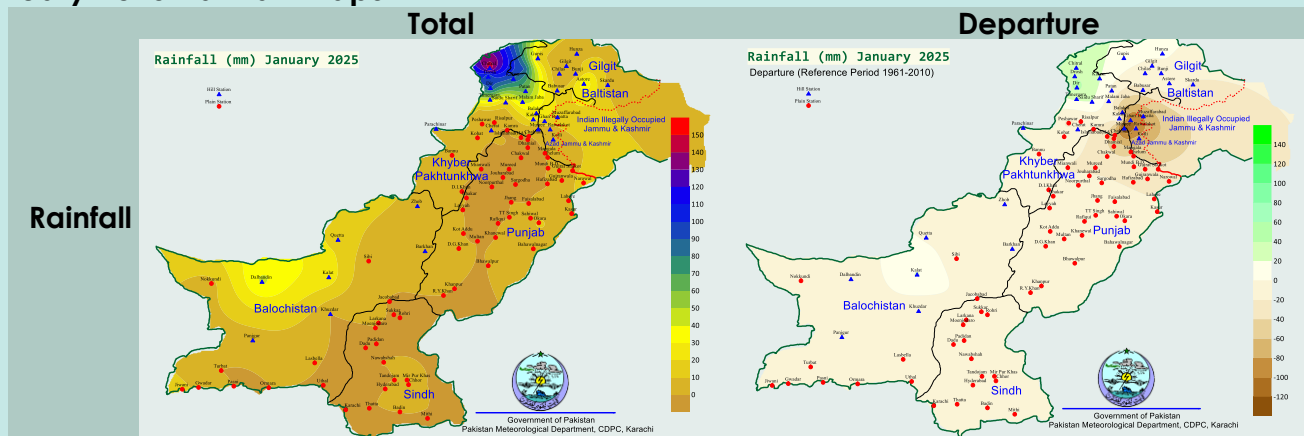


Fig. 2. January-2025 spatial rainfall distribution and departure from normal

Table 4: **Warmer-than-average** Temperatures across the country.

Area Averged Temperatures (°C) in January 2025 and anomalies from normal 1961-1990						
Regions	Maximum Temperature		Minimum Temperature		Mean Temperature	
	Actual	Anomaly	Actual	Anomaly	Actual	Anomaly
Pakistan	19.58	+1.24	4.25	+0.56	11.92	+0.69
Azad Jammu & Kashmir	13.08	+2.48	-0.43	+0.55	6.36	+1.55
Balochistan	19.79	+1.21	4.14	+0.08	11.93	+0.36
Gilgit-Baltistan	8.40	+2.26	-4.52	-0.07	1.94	+1.09
Khyber Pakhtunkhwa	16.53	+2.13	2.12	+0.52	9.36	+1.36
Punjab	20.91	+0.86	5.88	+1.35	13.44	+0.79
Sindh	25.08	+0.19	8.14	+0.58	16.64	+0.48

Area Average Mean Temperatures

The January 2025 national mean temperature of 11.92 °C was **warmer** than the country-average of 11.24 °C with anomaly of **+0.69 °C**. On regional scale KP with 9.36°C (**+1.36 °C**), AJK with 6.36 °C (**+1.55 °C**) and Punjab with 13.44°C (**+0.79 °C**) recorded the 6th 7th and 9th warmest January respectively during the past 65 years (the records in the same order are 9.81 °C in 1966, 7.14 °C in 2010 and 15.13 °C in 1965). The other regions i.e. GB with 1.94 °C (**+1.09 °C**), Sindh with 16.64 °C (**+0.48 °C**) and Balochistan with 11.93 °C (**+0.36 °C**) too exhibited warmer than average temperatures (Table-4, Fig. 3 lower panel). The mean temperature anomalies ranged from **-1.5 °C** to **+3.2 °C** in the country with those being considerably higher over KP and AJK.

Area Average Maximum temperatures

The country-level monthly mean maximum (daytime) temperature of 19.58 °C was also well above average (**+1.24 °C**) than the country average of 18.34 °C. Similarly on regional scale; AJK with 13.08 °C (**+2.48 °C**) and KP with 16.53 °C (**+2.13 °C**) both ranked 5th highest of the month during the past 65 years (the records are 14.24 °C in 2010 & 17.71°C in 1966 respectively), Punjab with 20.91 °C (**+0.86 °C**) recorded the 8th highest (record is 22.98°C in 1966), GB with 8.40°C (**+2.26 °C**), Balochistan with 19.79°C (**+1.21°C**) and Sindh with 25.08°C (**+0.19 °C**) all recorded warmer than average temperatures (Table-4, Fig-3 upper panel). The mean maximum temperature anomalies ranged from **-1.0 °C** to **+5.4 °C** in the country with those being considerably higher over AJ&K.

Area Average Minimum temperatures

The country's monthly mean minimum (night-time) temperature (4.25 °C) has also been **warmer**, by **+0.56 °C**, than average (3.69 °C). A similar trend was found across the regions: Punjab with 5.88 °C

(+1.35 °C), Sindh with 8.14°C (+0.58 °C), AJK with -0.43 °C (+0.55 °C), KP with 2.12 °C (+0.52 °C) all experienced warmer than average minimum temperatures. While Balochistan with 4.14 °C (+0.08 °C) and GB with -4.52 °C (-0.07 °C) both regions exhibited near average temperatures (Table-4, Fig-3, middle panel). The mean minimum temperature anomalies ranged from -4.1 °C to +2.7 °C in the country with those being considerably higher over south KP and adjoining Punjab. The hottest day of the month was 32.5 °C recorded at Mithi (Sindh) on 29th January. Coincidentally the same place happened to be the **warmest** place with 28.2 °C average maximum temperature during the month. The lowest night (minimum) temperature of the month was -12.0 °C recorded at Astore (GB) on 9th January, whereas the station Gupis proved to be the **coolest** place with -8.0 °C average night (minimum) temperature.

January 2025 Temperature maps

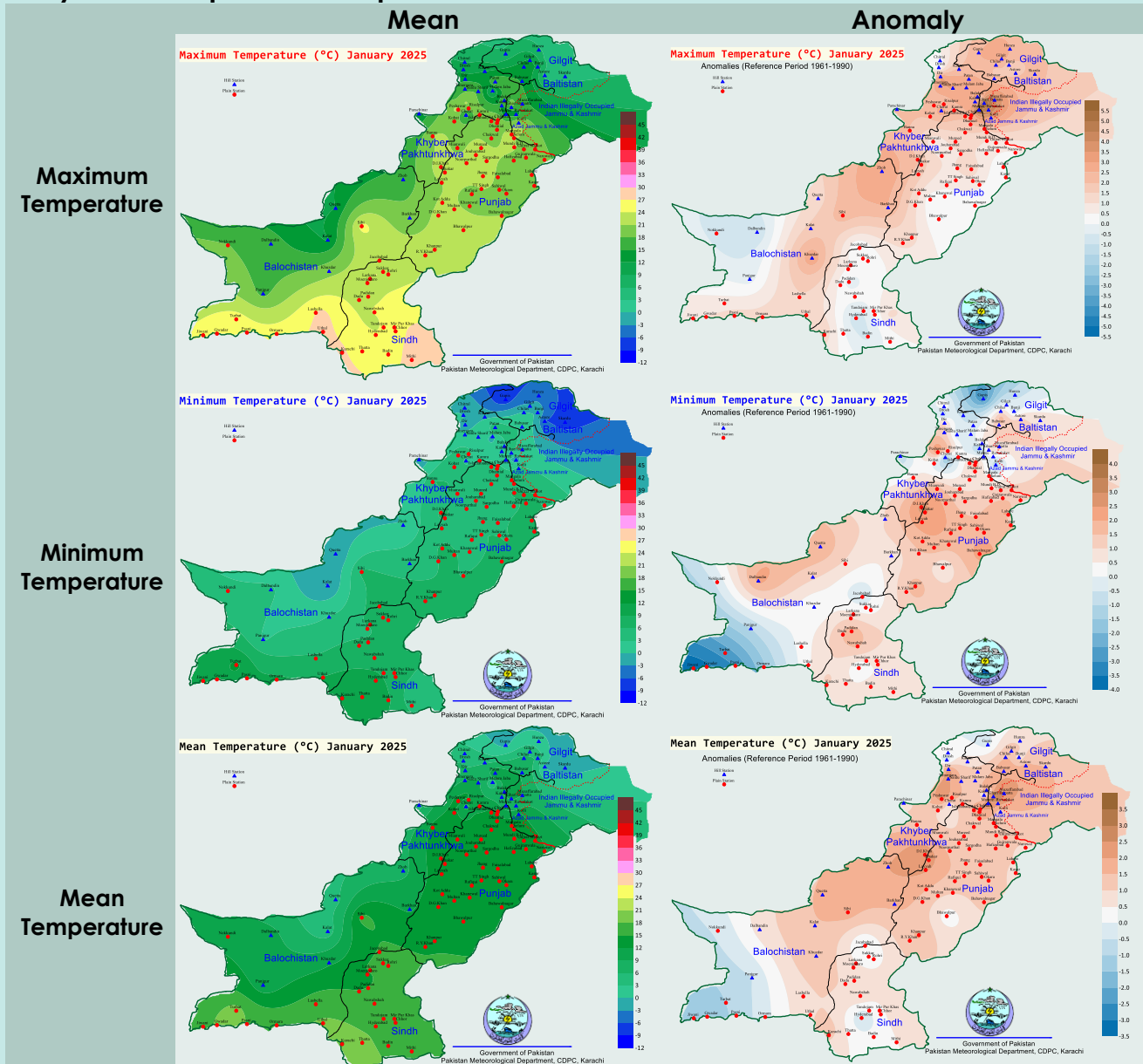


Fig. 3. January-2025 Temperatures (Maximum, Minimum & Mean) and their anomalies.

Table 5: January 2025 Monthly Averages & Normals

Station	Pressure (mb)		Temperature (°C)			Vapour (mb)	Precipitation	
	Station Level	Sea Level	Mean	Maximum	Minimum	Pressure	Total (mm)	Days
Drosh	859.3	1552.7	3.9	8.9	-1.1	4.7	85.6	9.0
	858.4	1535.3	4.6	9.2	0.1	4.3	48.6	6.1
Peshawar	980.1	1019.1	12.9	22.0	3.8	7.6	0.6	0.0
	975.8	1018.3	11.3	18.5	4.1	7.9	30.8	4.4
Parachinar	830.2	1532.5	4.8	12.1	-2.7	5.0	6.0	2.0
	828.3	1514.7	4.0	10.2	-3.0	4.1	47.6	2.9
Rawalpindi	959.2	1018.7	12.1	20.1	4.1	6.4	0.0	0.0
	958.5	1018.2	10.4	17.6	3.1	7.9	59.2	6.2
Sargodha	995.2	1017.3	14.0	21.8	6.1	9.8	0.0	0.0
	995.6	1017.4	12.1	19.9	4.3	9.4	16.8	4.1
Jhelum	989.2	1017.0	13.3	21.0	5.5	9.6	0.2	0.0
	989.7	1017.6	12.8	19.3	5.5	9.4	37.4	5.7
Sialkot	987.0	1017.2	12.7	19.3	6.1	11.9	5.0	2.0
	987.2	1017.5	11.6	18.2	5.1	10.1	41.8	5.0
Zhob	859.6	1497.5	8.0	15.8	0.1	3.9	8.0	2.0
	860.1	1500.5	5.9	12.8	-1.0	4.7	20.0	1.7
D.I.Khan	997.0	1017.4	14.7	22.4	6.9	9.7	0.0	0.0
	996.8	1017.3	12.4	20.1	4.4	8.8	11.4	3.5
Lahore	991.8	1017.3	14.0	19.9	8.0	10.6	2.6	1.0
	991.9	1017.4	13.2	19.6	6.7	9.7	22.9	4.8
Quetta	845.3	1544.0	5.3	12.0	-1.4	4.2	13.0	3.0
	842.8	1519.0	4.1	10.8	-2.7	5.0	64.0	5.9
Multan	1002.5	1017.2	13.8	21.2	6.3	9.7	0.0	0.0
	1003.1	1018.0	12.9	20.9	5.0	9.3	8.2	2.0
Barkhan	892.9	1507.5	11.6	18.6	4.6	4.6	3.0	2.0
	893.2	1508.0	10.2	16.2	4.1	5.2	13.9	1.3
Nokkundi	939.8	1018.7	10.9	18.1	3.6	4.9	7.0	1.0
	938.5	1017.8	11.4	18.8	3.9	6.2	8.4	0.6
Dalbandin	923.5	1532.6	10.0	16.4	3.5	6.3	42.0	2.0
	921.6	1513.8	9.8	16.6	1.9	6.0	24.9	1.0
Jacobabad	1010.5	1017.1	15.0	22.6	7.2	10.3	0.0	0.0
	1010.8	1017.4	15.1	22.5	7.7	9.2	3.6	0.5
Khanpur	1006.5	1017.2	14.7	23.0	6.2	10.9	0.0	0.0
	1006.5	1017.3	13.2	21.7	4.7	9.2	3.8	1.1
Panjgur	908.2	1527.4	10.0	17.2	2.7	7.0	4.0	2.0
	906.9	1516.7	10.6	17.3	3.9	3.8	15.8	1.6
Khuzdar	880.1	1521.8	11.6	20.0	3.2	5.5	0.0	0.0
	877.9	1496.8	10.7	17.1	3.2	2.8	22.1	1.4
Sh. Benazirabad	1014.0	1017.4	16.0	24.5	7.5	11.2	0.0	0.0
	1013.8	1017.7	15.3	24.3	6.2	10.6	2.5	0.1
Jiwani	1010.6	1017.3	17.5	25.0	10.0	11.5	13.0	1.0
	1010.4	1016.9	19.0	24.1	13.9	13.1	22.0	1.5
Pasni	1016.7	1017.3	17.8	26.2	9.4	9.8	0.0	0.0
	1015.1	1015.9	18.3	25.1	12.1	12.3	23.8	1.4
Hyderabad	1010.9	1016.0	17.6	24.1	11.1	9.1	0.0	0.0
	1018.4	1016.9	18.1	24.8	11.4	10.1	2.0	0.5
Chhor	1014.9	1015.6	16.8	27.6	6.0	10.3	0.0	0.0
	1015.4	1016.0	16.2	26.6	5.7	9.0	1.1	0.3
Karachi	1013.6	1016.4	19.4	27.2	11.5	8.9	0.0	0.0
	1013.9	1016.8	18.1	25.9	10.8	10.6	10.8	0.7

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

Table 6: January 2025 extreme values

STATION	Mean Temperature (°C)				Temperature (°C)				Highest (mm & knots)			
	Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	Rain	Date	Wind Speed	Date
Drosh	6.3	31	1.3	05	12.6	27*	-3.7	07	25.0	03	14.0	24
Peshawar	15.6	24	10.1	01	26.5	27	0.6	15	0.6	21	6.0	23*
Parachinar	6.3	08*	1.5	04	15.5	11	-4.0	05	3.0	4*	8.0	5*
Rawalpindi	15.1	31	9.6	16	24.0	03	2.0	1*	0.0	00	20.0	16
Sargodha	16.7	25	8.5	11	26.8	26	4.2	10	0.0	00	6.0	11
Jhelum	16.1	24	9.2	11	25.7	24	2.7	27	0.2	30	4.0	7*
Sialkot	15.4	30	8.3	10	23.5	22*	3.0	26	4.0	06	4.0	13*
Zhob	12.5	26	4.3	05	23.5	26	-2.0	6*	7.0	04	8.0	6*
D.I.Khan	19.5	25	9.3	11	29.5	25	5.0	03	0.0	00	12.0	23*
Lahore	17.3	22*	10.4	01	25.0	28	6.2	02	2.6	06	4.0	5*
Quetta	10.5	01	-0.3	05	18.5	28	-7.5	5*	10.0	19	22.0	17*
Multan	16.4	31	9.0	11	26.0	25	4.1	08	0.0	00	10.0	11
Barkhan	15.0	27	9.0	05*	24.0	26*	2.0	6*	2.0	16	6.0	16*
Nokkundi	15.5	01	7.0	04	23.5	28	-0.5	6*	7.0	19	12.0	22
Dalbandin	15.3	01	4.5	06	23.5	01	-2.0	06	24.0	19	12.0	29
Jacobabad	17.3	30	11.5	01	26.0	30	6.0	1*	0.0	00	4.0	4*
Khanpur	17.0	28*	9.8	01	28.2	28	3.8	7*	0.0	00	10.0	10
Panjgur	15.3	28	5.8	04*	25.5	28	-1.5	07	3.0	20	12.0	8*
Khuzdar	14.8	28	8.5	06	25.5	08	-1.5	6*	0.0	00	4.0	15*
Sh.Benazira bad	18.5	30	13.5	14	29.0	28	4.5	6*	0.0	00	12.0	6*
Jiwani	20.5	29	13.8	05	28.5	29	5.5	05	13.0	20	16.0	03
Pasni	19.5	29	15.3	09	30.5	29	6.0	8*	0.0	00	30.0	23*
Hyderabad	20.3	28	14.5	13	30.5	28	7.8	08	0.0	00	18.0	23*
Chhor	18.5	04*	13.8	13	31.5	27	4.0	8*	0.0	00	8.0	23
Karachi	21.8	29	17.0	07	31.0	27	8.0	07	0.0	00	16.0	17

* means value occurred multiple times

Note

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). The records mentioned for area-weighted rainfall and area average temperatures have been examined for the past 65 years i.e. from 1961-2025.

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