



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

In brief

- The national mean monthly temperature (20.36 °C) for Pakistan was **warmer by +1.50 °C** than the country-average of 18.86 °C.
- The daytime (maximum) temperature of 28.10 °C at country-level happened to be significantly **warmer by +2.26 °C** than the country-average of 25.84 °C.
- The country-level nighttime (minimum) temperature of 12.60 °C too was significantly **warmer by +1.19 °C** than the countrywide average of 11.40 °C.
- The **hottest** day of the month was observed at Mithi (Sindh) on 11th and 24th March when it recorded a maximum temperature of **42.0 °C**. Whereas the same station, proved to be the **warmest** place with a mean monthly maximum temperature of **38.0 °C**.
- The **coldest** night temperature of **-6.0 °C** of the month was recorded at Kalam (Khyber Pakhtunkhwa) on 5th March, whereas, the station Astore happened to be the **coldest** place with mean monthly minimum temperature of **-0.5 °C**.
- The national area-weighted rainfall of 15.1 mm was **well below average** with a larger negative anomaly of **-50%** in March-2025.
- The heaviest one-day rainfall of 86.0 mm occurred at Mirkhani (Khyber Pakhtunkhwa) on 27th March. Whereas, the station Dir (Khyber Pakhtunkhwa) has been the wettest place with monthly total of 219.0 mm.
- Weak La Niña conditions persisted with sea surface temperatures (SSTs) average anomaly being around -0.1 °C over the central equatorial Pacific Ocean.
- The Indian Ocean Dipole (IOD) has turned into neutral phase.

Table-1: National Weather Extremes during March 2025

Hottest day	42.0 °C	at Mithi (Sindh) on 11 th and 24 th
Coldest day	1.5 °C	at Malam Jabba (Khyber Pakhtunkhwa) on 3 rd
Coldest night	-6.0 °C	at Kalam (Khyber Pakhtunkhwa) on 5 th
Warmest night	25.0 °C	at Karachi Airport (Sindh) on 14 th
Wettest day	86.0 mm	at Mirkhani (Khyber Pakhtunkhwa) on 27 th
Wettest month	219.0 mm	at Dir (Khyber Pakhtunkhwa)

Synoptic Summary

In the month of March there were four western Disturbance (WDs) entered through Western and Northern Parts of the country which gripped Khyber Pakhtunkhwa, Punjab, Gilgit-Baltistan, Kashmir and Northwest Balochistan during 1-4, 9-16, 19-20 and 24-28 March. Which caused some heavy to very heavy rainfall, isolated hailstorm and snowfall over hills of Khyber Pakhtunkhwa, Punjab, Gilgit-Baltistan, Kashmir and some light intensity rain/drizzle in Northwest/Northeast Balochistan and isolated places in Upper Sindh. On the other hand, Central and Southern Balochistan and Sindh experienced severe dry situation in the month. Rest of the days remained under the dry continental air over most parts of the country.

Table-2: Repeated Temperature Records Set in March 2025

S No	Stations	Weather Parameters	Repeated value		Past Record		No of years examined.
			Value	Date	Value	Date	
1	QUETTA. (SH MANDA)	Hottest night Temperature (°C)	16.0	25/Mar/2025	16.0	27/Mar/2024	28
2	BALAKOT	Lowest day Temperature (°C)	7.0	03/Mar/2025	7.0	06/Mar/1982	69

Table-3: Significant Winds

Date	Station	Max Wind Knots
02/2025	Quetta Samungli	34
03/2025	Quetta Samungli	30

Rainfall: Well below average across the country.

Climatologically, March is considered as an average rainy month with rainfall contribution to the national annual total and season Jan-Mar (JFM) being 10.2% and 41.0%, respectively. During the month, Pakistan experienced 3 to 4 rain spells of light to moderate intensity. The daily area-averaged rainfall is shown in Fig-1. The March 2025 with 15.1 mm rainfall was **well below average** with a large negative anomaly of **-50%** for Pakistan as a whole. On regional scale, a diverse situation has been observed i.e. the worst dry conditions prevailed in Balochistan with only 1.0 mm being **extremely below-average (-95%)** rainfall and ranked 2nd driest March during past 65 years (the driest one with 0.0 mm was observed in 2004). Sindh with 0.4 mm (-90%) also experienced **extremely below-average** rainfall, Punjab with 9.9 mm (-65%) recorded **excessively below-average**, Khyber Pakhtunkhwa with 61.7 mm recorded **below average (-33%)** and AJK with 96.6mm (-05%) recorded near average rainfall. The Gilgit-Baltistan with 40.0mm (+53%) was the only region to have exhibited a **largely above-average** rainfall (Table-4). The heaviest one-day rainfall of 86.0 mm occurred at Mirkhani (Khyber Pakhtunkhwa) on 27th March. Whereas the station Dir (Khyber Pakhtunkhwa) has been the wettest place with monthly total 219.0 mm (Table-1).

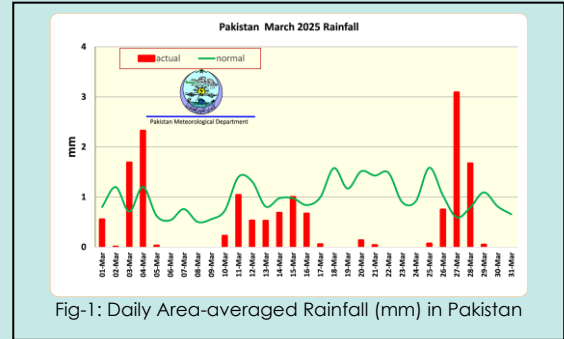


Fig-1: Daily Area-averaged Rainfall (mm) in Pakistan

Table-4: March 2025 Area Weighted Rainfall

Region	Rank (of 65y)	Normal (mm)	Average (mm)	Departure (percent)	Comment
Pakistan	14	30.5	15.1	-50	---
Azad Jammu & Kashmir	35	101.3	96.6	-5	---
Balochistan	02	20.5	1.0	-95	2 nd driest (record driest 0.0mm in 2024)
Gilgit Baltistan	49	26.1	40.0	53	---
Khyber Pakhtunkhwa	17	92.3	61.7	-33	---
Punjab	11	28.0	9.9	-65	---
Sindh	20	4.7	0.4	-90	---

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

March 2025 Rainfall maps

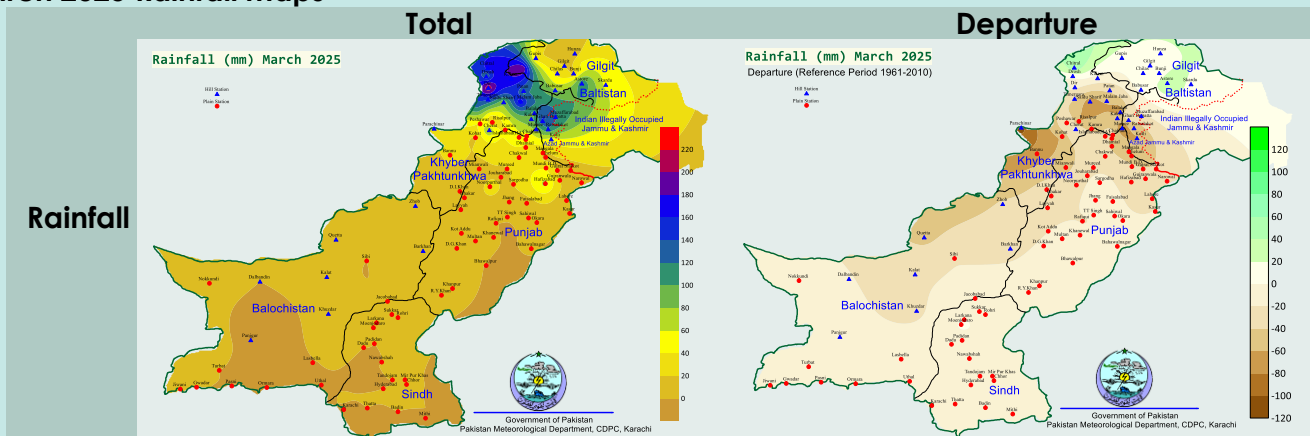


Fig. 2. March-2025 spatial rainfall distribution and departure from normal

In addition to the wettest station Dir (Khyber Pakhtunkhwa), some other individual stations also have recorded notable rainfalls, i.e. Kalam 200.0 mm, Malam Jabba 178.0 mm, Chitral 169.6 mm, Mirkhani 147.0 mm, Garhi Dupatta 144.0 mm, Muzaffarabad city 124.0 mm, Muzaffarabad airport 122.6 mm, Rawalakot 118.3 mm, Pattan 117.0 mm, Drosh 116.4 mm, Lower Dir 116.0 mm, and Astore 115.4 mm.

The stations: Badin, Chhor, Hyderabad A/P, Jacobabad, Karachi A/P, Larkana, Mithi, Shaheed Benazirabad, Padidan, Thatta, Dadu, Mirpur Khas, Tando Jam, Sakrand, Gawadar, Jiwani, Lasbela, Panjgur, Pasni, Sibbi, Turbat, Ormara, Faisal Base, and Masroor remained absolutely dry with no rain during the month, whereas the stations: Bahawalpur City, Bahawalpur Airport, Shorkot Airbase, and Dalbandin, recorded only traces of rainfall during the month.

Table 5: Warmer-than-average Temperatures across the country.

Area Averaged Temperatures (°C) in March 2025 and anomalies from normal 1961-1990						
Regions	Maximum Temperature		Minimum Temperature		Mean Temperature	
	Actual	Anomaly	Actual	Anomaly	Actual	Anomaly
Pakistan	28.10	+2.26	12.60	+1.19	20.36	+1.50
Azad Jammu & Kashmir	18.77	+1.89	5.81	+0.30	12.34	+1.12
Balochistan	28.63	+2.51	12.67	+1.10	20.63	+1.51
Gilgit-Baltistan	14.92	+0.31	3.45	-0.29	9.23	+0.03
Khyber Pakhtunkhwa	23.11	+2.57	8.73	+0.35	15.94	+1.50
Punjab	29.68	+2.14	14.52	+1.81	22.13	+1.62
Sindh	35.13	+2.12	17.38	+1.64	26.28	+1.94

Area Average Mean Temperatures (well above-average temperatures)

The March 2025 national mean temperature of 20.36 °C was warmer than the country-average of 18.86 °C with an anomaly of +1.50 °C. A similar situation prevailed on regional scale i.e. Sindh with 26.28°C (+1.94 °C) ranked 9th highest mean temperature of the month during past 65 years (the record being 28.05 °C in 2010), Punjab with 22.13 °C (+1.62 °C), Balochistan with 20.63°C (+1.51 °C), KP with 15.94°C (+1.50 °C) and AJK with 12.34°C (+1.12 °C) all recorded warmer than average temperatures. The Gilgit-Baltistan with 9.23 °C (+0.03 °C) was the only region to exhibit very close to average mean temperature of the month (Table-5, Fig-3 lower panel). The mean temperature anomalies ranged from -0.5 °C to +3.3 °C in the country with those being considerably higher over Balochistan, lower Sindh and Eastern Punjab.

Area Average Maximum temperatures (significantly above-average temperatures)

The country-level monthly mean maximum (daytime) temperature of 28.10 °C was largely above average (+2.26 °C) than the country average of 25.84 °C. So was a trend at regional scale; KP with 23.11 °C (+2.57 °C), Balochistan with 28.63 °C (+2.51 °C), Punjab with 29.68 °C (+2.14 °C), Sindh with 35.13 °C (+2.12 °C) and AJK with 18.77 °C (+1.89 °C) all recorded largely above-average maximum temperatures. The Gilgit-Baltistan with 14.92 °C (+0.31 °C) also recorded above-average maximum temperature but with lesser amount (Table-5, Fig-3 upper panel). The mean maximum temperature anomalies remained in the range from -0.8 °C to +4.4 °C in the country with those being considerably higher over Eastern Balochistan, lower Sindh and AJK.

Area Average Minimum temperatures (well above-average temperatures)

The country's monthly mean minimum (night-time) temperature of 12.60 °C in the month was also warmer, by +1.19 °C, than average 11.40 °C. A similar trend was found across the regions i.e. Punjab

with 14.52°C (+1.81 °C), Sindh with 17.38 °C (+1.64 °C), Balochistan with 12.67°C (+1.10 °C), KP with 8.73 °C (+0.35 °C) and AJK with 5.81°C (+0.30°C) all recorded warmer than average minimum temperatures. Gilgit-Baltistan with 3.45 °C (-0.29 °C) was the only region to experience slightly cooler than average minimum temperatures in the month (Table-5, Fig-3, middle panel). The mean minimum temperature anomalies ranged from -3.8 °C to +3.0 °C in the country with those being considerably higher over Western Balochistan, Lower Sindh and Eastern Punjab.

The hottest day of the month was 42.0 °C recorded at Mithi (Sindh) on 11th and 24th March. Coincidentally, the same place happened to be the warmest place with 38.0 °C average maximum temperature during the month. The lowest night (minimum) temperature of the month was -6.0 °C recorded at Kalam (KP) on 5th March, whereas the station Astore proved to be the coldest place with -0.5 °C average night (minimum) temperature.

March 2025 Temperature maps

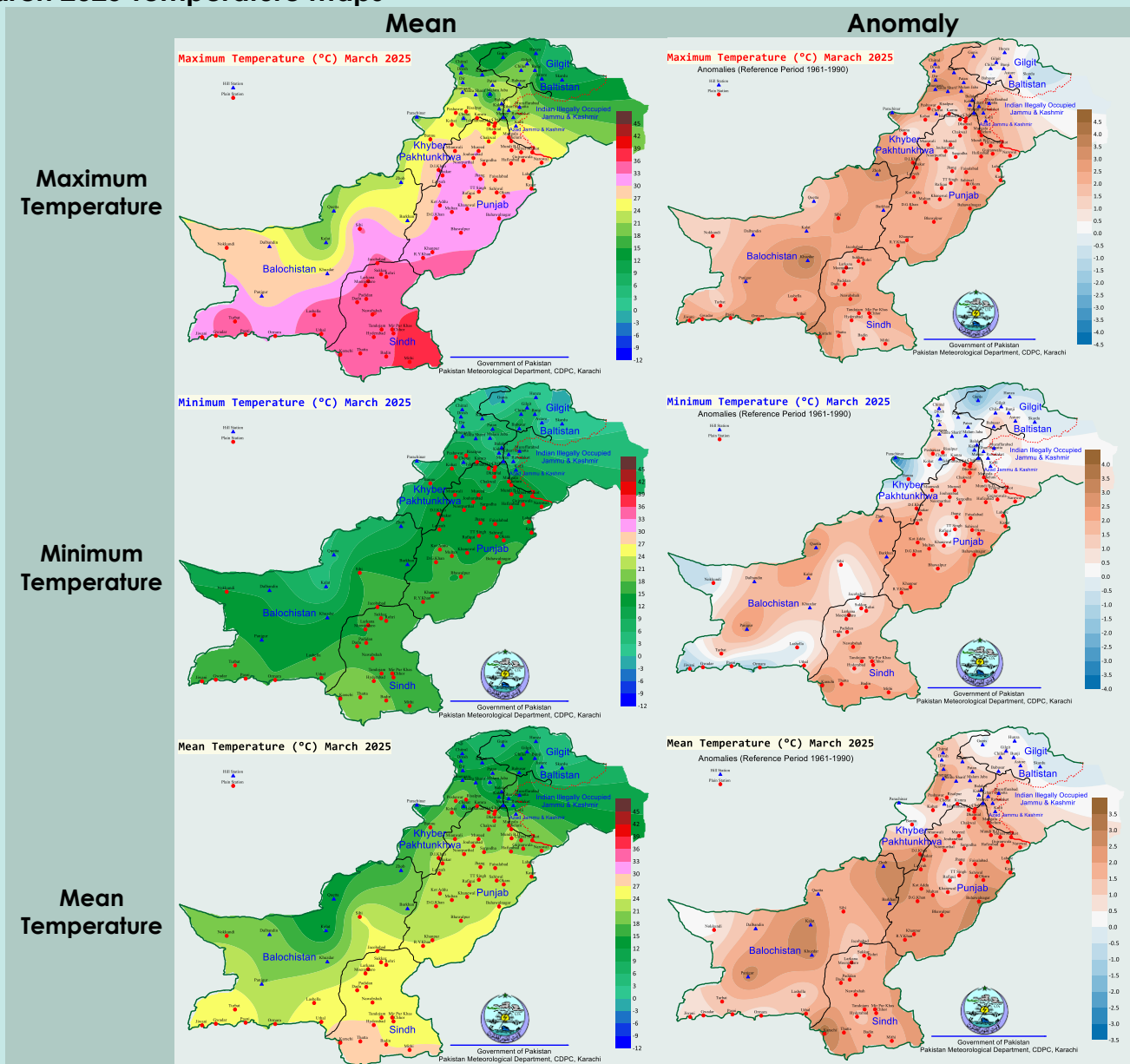


Fig. 3. March-2025 Temperatures (Maximum, Minimum & Mean) and their anomalies.

Table 6: March 2025 Monthly Averages & Normals

Station	Pressure (mb)		Temperature (°C)			Vapour Pressure	Precipitation (mm)	
	Station	Sea	Mean	Maximum	Minimum		Total	Days
Drosh	854.8	1510.7	10.9	17.6	4.1	6.0	116.4	10.0
	855.5	1509.1	10.3	15.9	4.7	6.1	115.6	12.5
Peshawar	976.2	1014.0	19.3	27.3	11.2	12.6	37.1	6.0
	971.3	1012.7	17.1	23.7	11.0	11.6	83.3	10.4
Parachinar	828.8	1515.6	10.0	19.5	0.5	5.8	21.2	2.0
	827.3	1501.3	9.2	14.9	2.8	6.1	136.6	12.4
Rawalpindi	955.6	1013.4	19.3	25.6	12.9	9.0	41.0	6.0
	954.2	1012.3	16.8	23.7	10.1	10.8	97.1	10.6
Sargodha	990.5	1011.7	22.4	29.9	14.9	13.3	21.2	3.0
	990.5	1012.1	19.8	27.2	12.5	13.2	32.4	8.4
Jhelum	984.8	1011.6	21.6	29.4	13.8	13.5	11.7	7.0
	984.5	1011.6	18.8	26.3	12.5	12.5	68.8	9.2
Sialkot	982.5	1011.7	20.5	27.8	13.2	14.3	11.2	4.0
	982.5	1011.9	18.5	25.4	11.9	13.3	53.4	7.3
Zhob	857.8	1482.3	16.6	23.5	9.7	6.4	6.0	1.0
	857.6	1478.9	13.6	20.2	7.0	6.8	47.6	4.9
D.I.Khan	991.9	1011.7	22.6	30.2	14.9	14.2	5.0	4.0
	991.7	1011.2	19.6	26.5	12.7	13.1	37.4	7.4
Lahore	987.3	1011.8	22.2	28.9	15.3	13.0	5.5	2.0
	986.7	1011.4	20.5	26.9	14.2	13.2	38.4	7.4
Quetta	844.2	1531.9	13.1	20.0	6.3	4.3	2.0	1.0
	841.0	1500.7	11.1	18.1	3.6	7.2	61.7	7.3
Multan	997.4	1011.5	23.1	30.6	15.6	13.0	1.6	1.0
	997.3	1011.7	20.6	28.2	13.4	13.3	16.6	3.3
Barkhan	891.3	1503.8	19.8	25.9	13.6	5.2	4.0	2.0
	891.4	1490.9	17.1	23.3	11.1	7.7	31.4	3.3
Nokkundi	935.0	1010.6	20.5	28.9	12.1	4.3	1.2	1.0
	934.8	1011.2	19.1	26.9	11.9	8.6	7.3	1.0
Dalbandin	920.1	1526.0	19.8	28.2	11.5	6.1	0.0	0.0
	917.8	1499.9	17.8	25.7	9.1	7.4	12.4	1.5
Jacobabad	1005.1	1011.4	24.9	33.5	16.4	12.4	0.0	0.0
	1004.6	1010.9	23.5	30.9	16.2	12.6	10.6	1.0
Khanpur	1000.6	1010.8	23.9	32.7	15.1	14.2	2.3	1.0
	1000.7	1011.0	21.1	29.7	12.6	13.1	3.6	1.8
Panjgur	904.8	1515.7	21.0	28.3	13.7	7.5	0.0	0.0
	904.1	1503.3	17.9	25.0	10.9	5.3	17.7	1.4
Khuzdar	878.4	1513.0	19.9	27.6	12.2	6.5	0.5	0.0
	875.6	1482.0	16.9	23.5	10.4	3.6	26.0	1.7
Sh. Benazirabad	1008.1	1011.4	26.4	36.3	16.5	17.7	0.0	0.0
	1007.6	1011.4	23.5	33.0	13.9	15.3	2.4	0.1
Jiwani	1006.9	1013.4	24.3	31.5	17.1	18.1	0.0	0.0
	1005.9	1012.4	23.2	28.2	18.3	18.6	15.4	0.9
Pasni	1012.5	1013.0	24.5	33.6	15.3	14.2	0.0	0.0
	1011.1	1012.6	22.7	29.8	16.6	16.5	21.0	0.8
Hyderabad	1006.1	1011.0	27.5	35.3	19.7	11.5	0.0	0.0
	1007.0	1011.0	25.9	33.4	18.5	13.4	2.5	0.3
Chhor	1010.5	1011.2	26.4	36.8	15.9	16.7	0.0	0.0
	1009.7	1010.3	24.4	34.6	14.2	13.5	0.8	0.2
Karachi	1009.3	1012.0	27.8	35.0	20.6	14.3	0.0	0.0
	1009.2	1011.9	24.7	31.7	17.7	17.0	6.6	0.8

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

Table 7: March 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	16.7	23	5.4	27	25.4	23	1.0	07	52.0	27	14.0	22
Peshawar	23.3	25	11.5	03	33.5	22	5.0	06	14.0	03	12.0	25
Parachinar	14.0	24	5.3	03	25.5	23	-3.0	03	20.0	11	8.0	9*
Rawalpindi	24.6	26	12.7	03	31.8	22	6.5	05	21.0	04	22.0	29
Sargodha	27.3	26	15.7	03	35.2	31	9.5	05	11.5	04	8.0	03
Jhelum	26.9	26	15.9	03	34.0	26*	9.0	01	3.3	16	22.0	26*
Sialkot	26.5	27	14.8	03	33.0	26	9.3	02	5.0	15	10.0	3*
Zhob	22.5	24	10.0	04	31.0	23	3.0	04	6.0	03	12.0	3*
D.I.Khan	26.0	22	17.8	01	35.0	22*	9.5	05	2.0	03	14.0	27
Lahore	27.8	27	16.8	04	34.0	26*	10.4	05	4.2	01	8.0	29
Quetta	20.7	25	4.0	04	27.5	23*	-3.5	04	2.0	03	34.0	02
Multan	26.9	24	18.1	05	36.2	24	9.8	05	1.2	03	16.0	14
Barkhan	23.5	24	13.8	04	31.5	22	8.5	04	3.0	15	12.0	4*
Nokkundi	27.8	24	11.3	04	37.0	23	1.0	04	1.2	12	18.0	26
Dalbandin	26.3	24	11.8	04	36.0	23	5.0	04	0.0	00	14.0	02
Jacobabad	28.5	24	18.3	05	38.0	24	8.0	05	0.0	00	8.0	27
Khanpur	28.9	23	17.9	05	39.5	23	7.3	05	2.3	15	10.0	11
Panjgur	25.8	12	13.0	04	33.5	22	6.5	04	0.0	00	16.0	3*
Khuzdar	23.8	24	13.8	03	32.0	23*	4.5	05	0.5	03	12.0	03
Sh.Benazirabad	30.8	26	18.5	05	41.5	25	7.5	05	0.0	00	20.0	26*
Jiwani	26.8	08	22.0	01*	35.5	8*	14.5	27	0.0	00	16.0	13*
Pasni	27.3	09	19.0	05	39.0	07	10.0	05	0.0	00	22.0	22
Hyderabad	31.0	10	21.3	05	40.0	10	13.5	05	0.0	00	20.0	24*
Chhor	29.5	22*	19.5	05	40.5	10*	7.0	05	0.0	00	14.0	25*
Karachi	30.0	13*	22.4	05	39.5	11	13.1	05	0.0	00	14.0	25*

* 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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