



Pakistan's Monthly Climate Summary April, 2022

In brief

- National rainfall for the month of April 2022 was 74%, largely below, normal and ranked 2nd driest month since 1961.
- April 2022 rainfall remained largely below normal over all parts of the country with Punjab (-89%), KP (-79%), Balochistan (-78%), AJK (-56%) & GB (-51%) all experienced extreme deficient rainfall.
- The wettest day of the month in the country was 21st April, when Larkana (Sindh) recorded 38.0 mm of rainfall with hail storm (first time ever in the history of Larkana in April). The wettest place was Mirkhani (KP) with highest monthly total rain of 67.8 mm. Many stations in Punjab, Sindh and Balochistan have reported nil or only traces of rainfall.
- The national mean monthly temperature of April 2022 for Pakistan as a whole was 28.36 °C, being 4.05 °C warmer than monthly-average, it is now the ever warmest April since 1961. The last record was 27.43°C in 2010.
- The mean maximum (daytime) temperature at country-level was 36.82 °C, being 5.02 °C warmer than average of 31.79 °C. It is now the ever warmest maximum temperature in April during past 62 years. The last record was 35.31°C in 2010.
- The nighttime (minimum) temperature was 19.86 °C, being 3.02 °C warmer than country-average of 16.84 °C, which also stands as the ever warmest night temperature since 1961. The last warmest night temperature was 19.5°C in 2010.
- The hottest day/night temperatures records have broken in number of cities.
- The hottest day of the month was at Jacobabad (Sindh) when it recorded 49.0 °C temperature on 30th April 2022.
- The coldest temperature of 1.5 °C of the month was recorded at Kalam (KP) on 1st April.
- The neutral Indian Ocean Dipole (IOD) event persisted during the month.
- La Niña remained active in the tropical Pacific but slowly getting weakened during April 2022.

New weather records set in April 2022

S No	STATION	Weather Parameter	New Record		Old Record	
			Value	date	Value	Date
1	Kalat	Hottest night temperature (°C)	19.0	30/2022	16.0	(02)/2017
2	Karachi Airport	Hottest night temperature (°C)	29.4	30/2022	28.0	28/2010
3	Quetta	Hottest night temperature (°C)	20.5	18/2022	19.5	29/2020
4	Chilas	Hottest night temperature (°C)	23.5	19/2022	23.0	24/1976
5	Gilgit	Hottest night temperature (°C)	19.0	29/2022	18.9	26/1993
6	Dera Ismail Khan	Hottest night temperature (°C)	28.0	30/2022	27.2	27/1970
7	Jacobabad	Hottest day temperature (°C)	49.0	30/2022	48.0	30/2018
8	Zhob	Hottest day temperature (°C)	39.0	28 & 30/2022	38.5	19/2019
9	Balakot	Hottest day temperature (°C)	37.0	29 & 30/2022	36.5	28/2006
10	Gupis	Hottest day temperature (°C)	29.5	29/2022	29.5	28/2011
11	Larkana	Heaviest rainfall in 24 hours (mm)	38.0	21/2022	35.0	04/2015

The dates in parentheses indicate number of occurrence.

National weather extremes during April 2022

Hottest day	49.0 °C	at Jacobabad (Sindh) on the 30 th
Coldest day	9.0 °C	at Babusar (GB) on the 13 th and at Bagrote (GB) on the 21 st
Coldest night	1.5 °C	at Kalam (KP) on the 1 st
Warmest night	29.5 °C	at Multan Airport (Punjab) on the 18 th
Wettest day	38.0 mm	at Larkana (Sindh) on the 21 st
Wettest month	67.8 mm	at Mirkani (KP)

Synoptic Summary

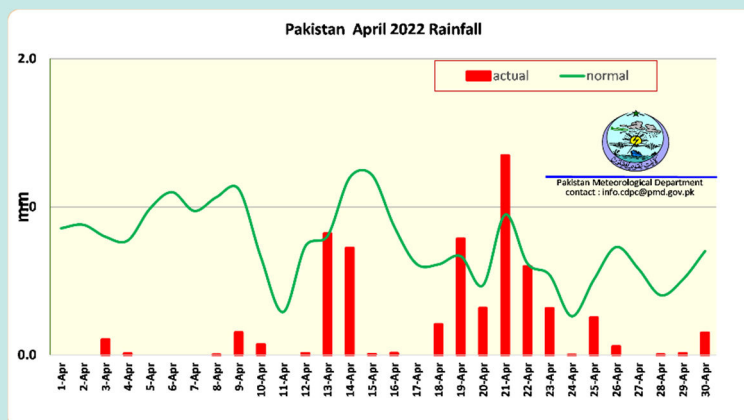
On 1st of April 2022, a westerly trough of low lay over upper Khyber Pakhtunkhwa (KP) and Gilgit Baltistan (GB) with another low-pressure formed over northeast Balochistan on 2nd day of the month which subsequently reduced to a trough next day and persisted till April 4th followed by the dry continental air which remained the dominant feature over most parts of the country during 5-12 April. A fresh trough developed over upper KP and adjoining GB on 11th April which converted into a low-pressure area the next day and this trough-low pattern persisted towards the end of month. On the other hand, a westerly wave passed over from northeast Balochistan and upper Sindh during 18-20 April, while, a shallow low appeared over northern area of Punjab on 22nd, reduced to a trough the next day and ultimately became less marked on 24th.

April, 2022 area-weighted rainfall

	Rank (of 62)	Normal (mm)	Average (mm)	Departure (percent)	Comment
Pakistan	02	22.5	5.9	-73.6	2 nd driest (record is 2.9mm in 2000)
Azad Jammu & Kashmir	05	79.6	34.9	-56.2	4 th driest (record is 17.6mm in 2000)
Balochistan	09	10.8	2.4	-77.6	9 th driest (record is 0.0mm in 1999)
Gilgit Baltistan	24	36.1	17.6	-51.2	----
Khyber Pakhtunkhwa	02	74.4	15.9	-78.6	2 nd driest (record is 7.6mm in 2000)
Punjab	03	20.6	2.3	-88.7	3 rd driest (record is 0.9mm in 2000)
Sindh	38	3.1	1.9	-38.7	----

Rank ranges from 1 (lowest) to 62 (highest)

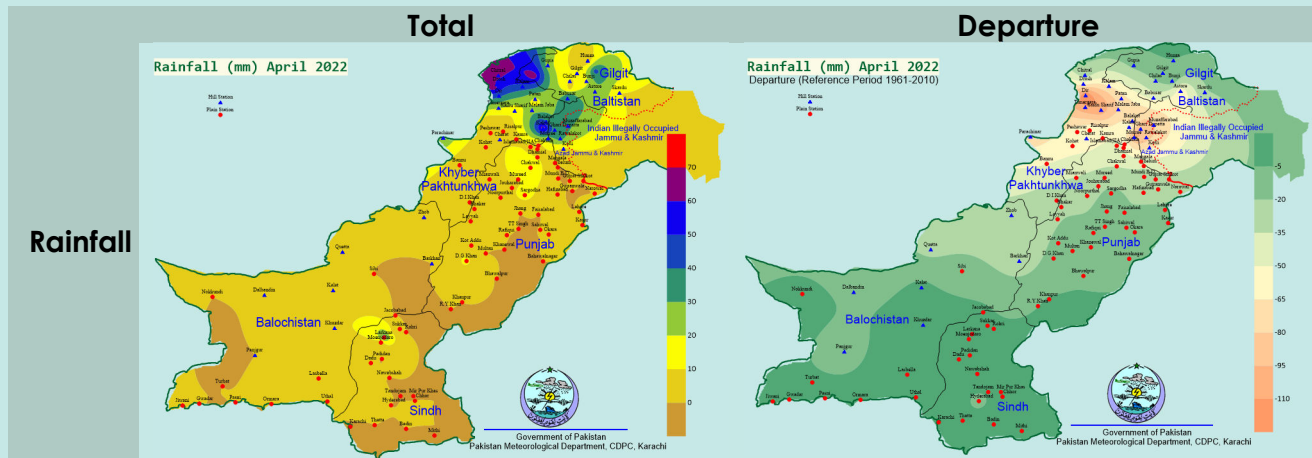
Rainfall, largely below average over the country.



During April 2022, only a couple of light rainfall events were experienced. April 2022 rainfall was 74% below average for Pakistan as a whole and ranked second driest April on record for

the country during 1961-2022. Climatologically, the month of April happens to be average wet month across Pakistan. However the April 2022 was found to be the largely deficient-rain month with only 5.9mm (area-weighted) rain against its normal of 22.5mm. On average, the April 2022 rainfall contribution is of the order of 10.6% and only 2% to the Pre-Monsoon (AMJ) and annual rainfall respectively.

April 2022 rainfall maps



On regional scale, all the regions/provinces witnessed extremely dry conditions during the month. The least rainfall occurred in the province of Sindh (1.9mm/-39%). Situation in the other regions was not very different as KP (15.9mm/-79%/2nd driest), Punjab (2.3mm/-89%/3rd driest), AJK (34.9mm/-56%/4th driest), Balochistan (2.4mm/-78%/9th driest) and GB (17.6mm/-51%) all experienced extremely dry conditions. The wettest day of the month in the country was 21st April, when Larkana (Sindh) recorded 38.0mm of rainfall with hailstorm. The wettest place was Mirkhani (KP) with highest monthly total rain 67.8mm. The other significant monthly total rain recorded were Kakul 67.0mm, Kalam 65.3mm, Chitral 62.7mm, Drosh 55.6mm, Bagrote 44.6mm, Dir 42.0mm, Balakot 41.0mm, Babusar 38.6mm. The stations; Bahawalnagar, Bahawalpur, Jhang, Rahim Yar Khan, Gujranwala, Sahiwal, T.T.Singh, Hunza, Bannu, Badin, Chhor, Hyderabad, Karachi, Mithi, Sh. Benazirabad, Padidan, Rohri, Thatta, Mirpur Khas, Tando Jam, Sakrand, Khairpur, Jiwani, Panjgur, Pasni, Turbat and Ormara remained absolutely dry with no rain during the month. Whereas the stations; Bhakkar, Faisalabad, Jhelum, Khanpur, Lahore City, Mandibahauddin, Multan Airport, Shorkot, Sialkot, Khanewal, Narowal, D.I.Khan, Jacobabad, Barkhan, Gawadar, Nokkundi, Quetta and Sibbi reported only traces of rainfall.

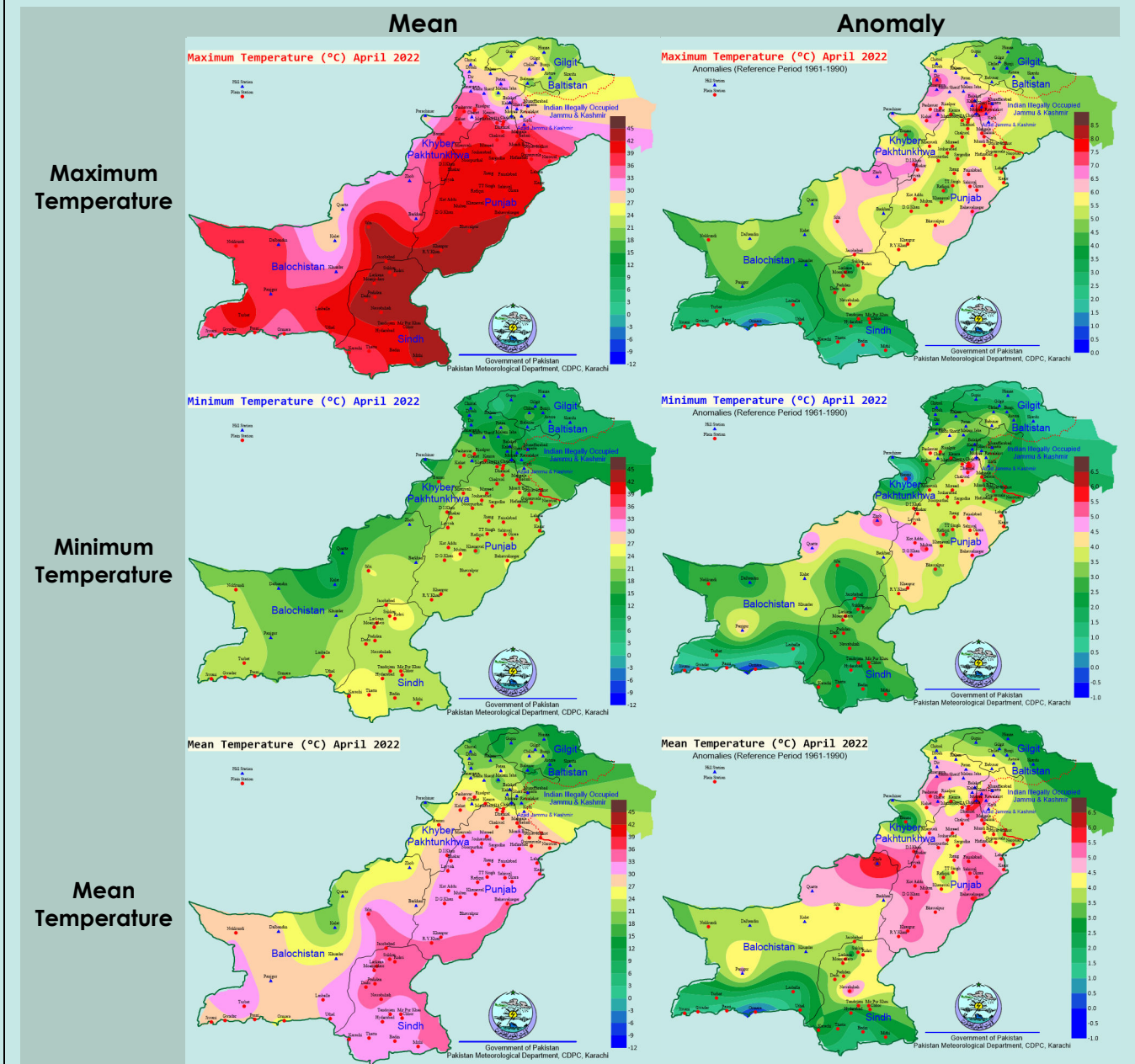
Temperatures– Extreme warm temperatures observed over the country.

The national mean monthly temperature of April 2022 for Pakistan as a whole was 28.36 °C, being 4.05 °C warmer than average of 24.32 °C and as such stands as **the warmest ever April on record since 1961**, The previous warmest mean temperature of 27.43 °C was recorded in 2010. Similarly on regional scale, April 2022 has become warmest month in all regions i.e. AJK with 20.97°C (last record was 20.13 °C in 2007), Balochistan with 28.06°C (last record was 27.84 °C in 2000), GB with 17.61 (last record was 17.47 in 2007), KP with 26.17 °C (last record was is 24.99 °C in 2010), Punjab with 31.26 °C (last record was 30.61 °C in 2010) and Sindh with 32.88 °C (last record was 32.37 °C in 2010). The mean temperature anomalies in Balochistan (+3.73 °C), GB (+3.21 °C), Sindh (+3.23 °C), AJK (+4.00 °C), KP (+4.85 °C) and Punjab (+4.88 °C) showed warmer than average temperatures for the month.

The April 2022 mean maximum (daytime) temperature of 36.82 °C at country-level now stands as the warmest ever mean maximum temperature (the last record was 35.31 °C in 2010) being 5.02 °C warmer than average of 31.79 °C. The average night (minimum) temperature of 19.86 °C, being 3.02 °C warmer than country-average of 16.84 °C, during the month also ranks as the warmest mean minimum since 1961 (last record was 19.5 °C in 2010).

The mean temperature anomalies of April 2022 lie between -0.5 to 6.5 °C in the country. The Mean Maximum temperature anomalies were 0.3 to 8.3 °C in the country. The maximum temperature anomalies over north Balochistan, centre-east Punjab, KP and AJK were considerably higher. The hottest day of the month was at Jacobabad (Sindh) when it recorded 49.0 °C temperature on 30th April. The coldest temperature of 1.5 °C of the month was recorded at Kalam (KP) on 1st April 2022.

April 2022 Temperature maps



April 2022 Monthly-averages & Normals

Station	Pressure (mb)		Temperature (°C)			Vapour (mb)	Precipitation	
	Station Level	Sea Level	Mean	Maximum	Minimum	Pressure	Total (mm)	Days
Drosh	853.2	1496.3	20.9	28.8	13.0	8.8	55.6	8
	853.6	1496.3	17.2	23.6	10.7	7.9	99.2	12
Peshawar	970.0	1006.5	28.2	37.5	18.8	16.6	5.0	2
	967.4	1007.7	23.6	30.6	16.5	15.2	50.4	9.3
Parachinar	828.0	1500.7	19.3	27.5	11.1	5.8	29.0	6
	826.5	1487.3	14.9	21.3	8.5	8.5	96.5	13.5
Rawalpindi	950.2	1005.9	28.3	35.3	21.2	12.4	5.3	1
	950.6	1007.3	22.5	30.2	15.4	13.4	63.1	9.2
Sargodha	983.9	1004.1	31.7	40.2	23.2	21.5	10.6	2
	986.0	1006.9	26.3	34.2	18.4	15.8	29.6	6.9
Jhelum	978.4	1004.4	29.9	39.4	20.4	17.8	0.0	0
	980.3	1006.8	25.4	33.0	17.8	15.1	36.0	8
Sialkot	976.5	1004.9	28.9	37.8	20.0	17.3	0.0	0
	978.0	1006.5	24.8	32.4	17.2	15.0	33.0	6.1
Zhob	855.8	1464.7	26.1	33.7	18.4	6.3	4.0	1
	856.3	1468.5	20.2	27.2	13.2	8.2	31.2	3.1
D.I.Khan	984.8	1003.9	31.4	40.3	22.5	16.2	0.0	0
	987.0	1006.5	25.9	33.5	18.5	15.8	24.1	5.6
Lahore	980.8	1004.5	31.5	39.1	23.8	14.1	0.0	0
	982.3	1006.3	27.0	34.0	20.0	14.8	22.3	6.3
Quetta	841.8	1504.8	21.3	29.4	13.2	3.7	0.0	0
	839.9	1487.3	17.0	25.3	8.6	8.8	22.2	3.9
Multan	990.3	1003.9	32.7	40.7	24.7	13.2	0.0	0
	992.4	1006.3	28.1	35.6	19.5	15.6	14.6	4
Barkhan	887.9	1481.1	27.9	35.1	20.8	6.4	0.0	0
	887.3	1480.0	23.5	29.6	17.0	9.3	37.3	3.3
Nokkundi	929.5	1002.6	29.9	38.3	21.4	4.8	0.0	0
	931.8	1008.3	25.8	34.2	18.6	10.5	2.3	0.5
Dalbandin	914.4	1489.8	27.8	37.6	18.0	8.8	1.0	1
	914.9	1488.8	24.4	31.9	14.3	8.0	5.7	1
Jacobabad	997.8	1004.0	34.1	44.2	23.8	24.1	0.0	0
	999.4	1005.6	30.2	38.2	22.3	15.2	2.1	0.7
Khanpur	993.8	1003.7	32.9	42.9	22.9	15.9	0.0	0
	995.7	1005.8	27.7	37.1	18.4	15.3	3.1	1.1
Panjgur	899.5	1478.4	28.4	36.1	20.6	13.4	0.0	0
	901.8	1493.4	24.0	31.5	16.4	6.4	8.6	0.9
Khuzdar	875.5	1491.8	27.1	33.7	20.5	6.2	9.5	2
	873.9	1470.7	22.8	29.9	16.1	4.1	17.1	1.7
Nawabshah	1001.1	1004.4	33.7	44.6	22.7	19.1	0.0	0
	1002.7	1007.3	29.5	39.6	19.5	19.7	2.6	0.2
Jiwani	1001.1	1007.5	28.0	33.9	22.0	25.9	0.0	0
	1002.2	1008.5	26.7	31.9	21.9	22.7	4.6	0.2
Pasni	1006.7	1007.2	27.8	34.6	20.9	26.5	0.0	0
	1007.4	1008.1	26.2	33.0	20.8	21.8	1.2	0.1
Hyderabad	1000.3	1005.1	33.2	41.9	24.4	19.9	0.0	0
	1002.6	1006.6	31.0	38.8	23.0	17.7	5.1	0.4
Chhor	1004.4	1005.2	32.9	42.7	23.1	22.0	0.0	0
	1005.5	1006.1	29.9	39.6	20.2	17.3	1.6	0.3
Karachi	1004.1	1006.8	31.5	37.4	25.5	26.3	0.0	0
	1005.3	1008.0	28.5	34.5	22.5	22.2	3.2	0.2

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

April 2022 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	25.5	30	15.8	21	34.6	30	8.0	21	23.4	21	20	12
Peshawar	32.7	30	25.2	02	42.4	30	14.0	1	3.0	19	12	29
Parachinar	21.6	20	17.5	26	30.2	20	8.0	22	8.0	25	8	17*
Rawalpindi	32.3	30	25.1	22	40.1	28	16.5	1	4.5	21	24	21
Sargodha	35.3	28	28.1	22	44.5	28	17.2	1	8.5	25	10	18
Jhelum	34.8	29	26.4	02	43.5	28	15.7	2	0.0	0	18	21
Sialkot	32.9	29	26.1	02	41.5	28	15.8	2	0.0	0	14	29
Zhob	30.3	28*	22.3	19	39.0	28*	15.0	19	4.0	19	13	2*
D.I.Khan	35.8	30	29.0	22	43.5	30	19.0	7	0.0	0	10	21*
Lahore	34.7	29	28.6	1*	42.5	29	20.0	2	0.0	0	8	29
Quetta	25.3	28	16.3	01	32.5	10*	6.0	1	0.0	0	26	2*
Multan	36.9	28	29.0	03	45.3	27	19.7	3	0.0	0	16	19
Barkhan	31.5	30	25.0	04	39.0	30	16.5	4	0.0	0	6	2
Nokkundi	34.0	29	23.5	01	42.0	30	11.5	1	0.0	0	18	18
Dalbandin	32.3	30	22.8	01	41.5	30	12.0	1	1.0	20	8	6*
Jacobabad	38.3	30	30.8	01	49.0	30	19.5	1	0.0	0	8	22*
Khanpur	36.5	28	29.3	22	46.5	30	18.0	4	0.0	0	14	22
Panjgur	31.8	30	23.8	01	39.0	30	16.0	1	0.0	0	18	18
Khuzdar	29.3	10*	23.8	20	36.5	9*	18.0	20	5.3	18	6	17*
Nawabshah	36.8	27	30.6	01	47.5	27*	18.5	2	0.0	0	14	17
Jiwani	31.3	29	25.3	05	37.5	2	18.5	5	0.0	0	14	14*
Pasni	30.3	30	25.8	3*	38.5	8*	18.0	2	0.0	0	26	30
Hyderabad	36.4	30	31.3	12	45.7	30	21.5	4	0.0	0	20	11
Chhor	35.9	30	30.5	1*	45.7	30	18.0	1	0.0	0	12	12*
Karachi	35.0	30	29.4	04	41.2	7	19.8	2	0.0	0	14	8

* mean 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).

Contact

Director, Climate Data Processing Centre, Pakistan Meteorological Department

Meteorological Complex, Gulistan E Jouhar, Block #5, Karachi-75290

Webpage: <http://www.pmd.gov.pk/cdpc/home.htm>; Email: info.cdpc@pmd.gov.pk

Published on 4th May, 2022