



**Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Advisor/
Chairman, Federal Flood Commission**

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**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
WEDNESDAY, JULY 31, 2024**

At present, River Indus is flowing in **Low Flood** at **Kalabagh** (downstream of Tarbela). The Kabul River, a tributary of the Indus, is in **Medium Flood** at **Nowshera** and **Low Flood** at **Warsak**. The rest of major rivers in the Indus River System (i.e. rivers Jhelum, Chenab, Ravi, and Sutlej) are flowing normally. For river inflows/ outflows at important locations alongwith major reservoirs water levels & storage positions **Annexure-I** is referred. Combined Live Storage of the country's major reservoirs (Tarbela, Mangla & Chashma) as of today is **8.994 MAF (67.52%** of Maximum Live Storage Capacity of **13.321 MAF)**.

2. According to FFD, Lahore, yesterday Monsoon Low over Southeastern Sindh and adjoining areas has moved West-southwestward and is now positioned south of Gwadar in the Arabian Sea, becoming insignificant for the upper catchments of all major rivers in the Indus River System. Another Low-Pressure Area has developed over Northwestern Uttar Pradesh (India), which may affect the upper catchments of the Sutlej, Ravi, Chenab, and Jhelum rivers after 48 hours. Additionally, an upper air circulation has developed over West Bengal and adjacent areas. A trough of strong westerly wave is present over Kashmir and adjoining areas, while a Well-marked Seasonal Low is over northwestern Balochistan. Light to moderate moist currents from both the Arabian Sea and the Bay of Bengal are penetrating most parts of Pakistan up to 5000 feet.

Weather Forecast (Next 36-Hours) Source: FFD, Lahore:

3. Scattered to widespread thunderstorm rain of **Moderate to Heavy Intensity** is expected over upper catchments of rivers Sutlej and Ravi alongwith Makran Coast. Scattered thunderstorm of **Moderate Intensity** with isolated **Heavy Fall** are expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala & Lahore Divisions)** including upper catchments of rivers Indus, Kabul, Jhelum and Chenab, besides, isolated thunderstorm rain over **Punjab (Multan, Bahawalpur, Sahiwal and Faisalabad Divisions), Sindh Province, Khyber Pakhtunkhwa Province and Balochistan (Zhub, Sibbi, Nasirabad & Kalat Divisions)** during the same period.

4. Significant rainfall event reported during past 24 hours may be seen at **Annexure-II**.

Extended Weather Outlook and Flood Forecast (1st August to 7th August 2024):

5. **Widespread** thunderstorm rain of **Moderate to Heavy Intensity** with **Scattered Very Heavy Falls** and isolated **Extremely Heavy Rainfall** is expected over **Punjab (Gujranwala & Lahore Divisions)** including upper catchments of rivers Sutlej, Ravi and Chenab with some extend over river Jhelum. **Scattered to Widespread** thunderstorm rain of **Moderate to Heavy Intensity** with isolated **Very Heavy Fall** is also expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Multan, DG Khan, Bahawalpur, Sahiwal and Faisalabad Divisions) and Khyber Pakhtunkhwa** including river Indus and Kabul. In addition to above, a fresh rainfall spell over Sindh and Balochistan is likely to start from **3rd August 2024**.

6. As per the prediction of FFD, Lahore, the above Met Conditions may result into flood situation between **2nd August to 4th August 2024** as given below:

- **Medium to High level flood** is expected in rivers **Jhelum (Mangla Upstream), Kabul** and its tributaries & **Chenab** at **Marala, Khanki** and **Qadirabad** along with nullahs of Rivers Ravi and Chenab catchments.
- **Low to Medium level flows** are also expected in River Indus at Tarbela, hill torrents of DG Khan Division and nullahs of Zhob, Sibbi, Nasirabad and Kalat Divisions.

7. **All Relevant Organizations are advised to remain Fully Alert and Vigilant** and to take prompt action in response to warnings issued by the relevant authorities to ensure the safety of communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

8. PMD, Islamabad through its specialized Flood Forecasting Unit (FFD, Lahore) is closely monitoring the prevailing weather system and is keeping all concerned organizations fully cognizant of the situation.



(Dr. M. Ejaz Tanveer)

Chief Engineer Floods

For, Chairman, Federal Flood Commission

Distribution:

1. Chairman, Senate Standing Committee on Water Resources, Parliament House, Islamabad
2. Minister for Water Resources, Islamabad.
3. Minister for Planning, Development & Special Initiatives, Islamabad
4. Minister for Climate Change & Environmental Coordination, Islamabad.
5. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
6. Secretary, Ministry of Water Resources, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
8. Secretary, Ministry of Climate Change & Environmental Coordination, Islamabad.
9. Secretary, Ministry of National Food Security & Research, Islamabad.
10. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
11. Secretary, Senate Standing Committee on Water Resources, Parliament House, Islamabad.
12. Chairman, National Disaster Management Authority, Islamabad.
13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chief Executive Officer, Pakistan Railways, Lahore.
15. Chairman, Indus River System Authority, Islamabad.
16. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
17. Chairman, National Highway Authority, Islamabad.
18. Director General, Pakistan Meteorological Department, Islamabad.
19. Member (Water), WAPDA, WAPDA House, Lahore.
20. Member (Infrastructure), Planning Commission, Islamabad.
21. Chief Secretary, Government of the Punjab, Lahore.
22. Chief Secretary, Government of Sindh, Karachi.
23. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
24. Chief Secretary, Government of Balochistan, Quetta.
25. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
26. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
27. Secretary, Irrigation Department, Government of the Punjab, Lahore.
28. Secretary, Irrigation Department, Government of Sindh, Karachi
29. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar
30. Secretary, Irrigation Department, Government of Balochistan, Quetta.

Distribution:

31. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
32. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
33. Chief Engineer (Merged Areas), Irrigation Department, Government of K.P, Peshawar.
34. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
35. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
36. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
37. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
39. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
40. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
41. Director General, Gilgit Baltistan Disaster Management Authority, Gilgit.
42. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
43. Chief Commissioner, ICT, Islamabad.
44. Chairman, Capital Development Authority, Islamabad.
45. Commissioner, Rawalpindi.
46. Managing Director, WASA, Rawalpindi.
47. Principal Information Officer, Press Information Department, Islamabad.
48. Director (News), Associated Press of Pakistan, Islamabad.
49. Director (News), Pakistan Television, Islamabad.
50. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
51. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2024, dated 31-07-2024

Rivers and Reservoir Positions July 31, 2024 at 0600 Hours

A. River Flow Situation:

(Discharge in Cusecs)

Structures	Designed Capacity	Historic Peak Floods experienced to-date		Last Year Flow		Today Actual Flow with Flood Classification			Comparative Danger (VHF) Classification
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	248,000	159,000	318,000	163,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	296,000	288,000	263,000	255,000	Low Flood (S)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	345,000	339,000	251,000	235,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	363,000	363,000	222,000	195,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	482,000	461,000	176,000	146,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	435,000	401,000	128,000	80,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	169,000	133,000	76,000	43,000	Normal	650,000
River Kabul									
• Warsak	540,000				29,000		51,000	Low Flood (R)	200,000
• Nowshera					57,000		102,000	Med Flood (R)	200,000
River Swat									
• Chakdara Bridge					13,000		10,000	Normal	150,000
• Munda(H. Works)					15,000		28,000	Normal	150,000
• Charsadda Road	150,000				14,000		29,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	54,000	10,000	55,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	69,000	54,000	76,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	73,000	66,000	64,000	56,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	70,000	60,000	61,000	41,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	91,000	85,000	34,000	18,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	105,000	94,000	21,000	7,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		36,000		5,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		32,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	71,000	50,000	42,000	13,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	48,000	37,000	23,000	9,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	71,000	66,000	17,000	4,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	49,607	49,607	3,000	1,000	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Ft-AMSL)	Minimum Operating Level (Ft-AMSL)	Water Level (Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2022	2023	2024	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1529.00	1536.15	1526.89	5.766	5.022	4.481	77.71 %
Chashma	649.00	638.15	639.00	639.30	644.90	0.278	0.014	0.123	44.24 %
Mangla	1242.00	1050.00	1151.20	1228.20	1202.15	7.277	6.285	4.390	60.33 %
Total Live Storage						13.321	11.321	8.994	67.52 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	26.3 °C	34.8 °C	+ 8.5 °C
Minimum	13.3 °C	19.5 °C	+ 6.2 °C

NOTES: "Mild" Categories

- Low Flood: River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas
Medium Flood: River partly inundating river islands/belas
High Flood: River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboard

"Danger" Categories

- Very High Flood (VHF): River flowing between high banks/bunds with encroachment on the freeboard
Exceptionally High Flood (EHF): Imminent danger of overtopping/breaching, or the high bank areas have become inundated

* **Flood Classification:** (applied on downstream discharge/Outflow)

* **(R)** Signifies "Rising" Flood, **(F)** Signifies "Falling" Flood, **(S)** Signifies "Stable" Flow Condition & NR stands for "Not Received"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours.

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WEDNESDAY, JULY 31, 2024
Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Murree	64
2.	Islamabad	52
3.	Gujranwala	38
4.	Lahore	16
5.	Attock	13
6.	Bahawalnagar	09
B	Sindh	
7.	Karachi	57
8.	Shaheed Benazirabad	17
9.	Tando Jam	10
10.	Badin & Larkana	08
11.	Dadu	07
C	Khyber Pakhtunkhwa	
12.	Balakot & Shinkiari	66 each
13.	Phulra	58
14.	Daggar	46
15.	Khawagoobo Bridge	43
16.	Besham	39
17.	Kakul	35
18.	Oghi	34
19.	Ghalanai	32
20.	Bosak Bridge	29
21.	Tarbela	30
22.	Malam Jabba	26
23.	Cherat	22
24.	Chowni Bridge Chitral	21
25.	Saidu Sharif	19
26.	Peshawar & Chitral	14 each
27.	Darashoot, Warsak Dam & Pattan	13 each
D	Balochistan	
28.	Lasbela	05
E	Gilgit-Baltistan	
29.	Chilas	06
30.	Gilgit	05
F	AJ&K	
31.	Muzaffarabad	79
32.	Domel	64
33.	Chattar Kallas	60
34.	Garhi Dopatta	30
35.	Chakothe	11
36.	Sharda	10

Source: FFD, Lahore (Phone No. 042 99200139)