



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

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**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SATURDAY, SEPTEMBER 09, 2023**

All major rivers of Indus River System (Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing in "**Normal Flow Conditions**" as a result of the subdued monsoon activity in the catchment areas of the Indus River System. Today's river flows and reservoir elevations may be seen at **Annexure-I**, which indicates that **Tarbela & Mangla reservoirs** are just **0.79 feet & 1.65 feet** below their respective **Maximum Conservation Level**.

2. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **13.146 MAF** (i.e. **97.79 %** of **13.443 MAF**). Management Authorities of both Tarbela and Mangla reservoirs are advised to operate and maintain the respective dams strictly in accordance with SOPs and safety guidelines.


3. As per FFD, Lahore, light to moderate **Moist Currents** from both Arabian Sea & Bay of Bengal are penetrating into upper parts of the country upto 3,000 feet whereas the **Seasonal Low** continues to prevail over Northeastern Balochistan.

4. **Scattered Thunderstorm/ Rain** of **Light to Moderate Intensity** is expected over **Gujranwala Division** of **Punjab** including upper catchments of rivers Chenab, Ravi & Sutlej during the next 24 hours. **Isolated Thunderstorm/ Rain** of **Light to Moderate Intensity** may also occur over **Islamabad, Rawalpindi & Lahore Divisions (Punjab)** and upper catchments of rivers Indus, Kabul & Jhelum during the same period.

5. During the preceding 24 hours, few scanty rainfall events have been observed in Punjab, Sindh, Khyber Pakhtunkhwa, and AJ&K (Ref: **Annexure-II**). As per FFD Lahore's **Rainfall Outlook (10th to 16th September, 2023)** moderate rainfall activity is expected over the upper catchments of all the Major Rivers from **15th September, 2023**.

6. All concerned organizations including **Tarbela & Mangla Dam Management Authorities** are advised to remain **ALERT** and exercise necessary measures as per their respective SOPs, in case of any emergency.

7. Through its specialized forecasting arm (Flood Forecasting Division at Lahore), the **Pakistan Meteorological Department (PMD)** is keeping all concerned organizations fully updated on the current weather conditions prevailing around the country.


for **(Ahmed Kamal)**
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad

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5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad.
9. Director General (Coord-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Secretary, Irrigation Department, Government of the Punjab, Lahore.
27. Secretary, Irrigation Department, Government of Sindh, Karachi
28. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
29. Secretary, Irrigation Department, Government of Balochistan, Quetta.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
32. Chief Engineer Merged Areas, Irrigation Deptt., Govt. of Khyber Pakhtunkhwa, Peshawar.
33. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
34. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
35. Director General, Provincial Disaster Management Authority, Govt. of the Punjab, Lahore.
36. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
37. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
38. Director General, Provincial Disaster Management Authority, Govt. of Balochistan, Quetta.
39. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
40. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
41. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
42. Chief Commissioner, ICT, Islamabad.
43. Chairman, Capital Development Authority, Islamabad.
44. Commissioner, Rawalpindi.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2023, dated 09-09-2023

Rivers and Reservoir Positions September 09, 2023 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	159,000	152,000	97,000	139,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	166,000	158,000	118,000	110,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	222,000	204,000	163,000	150,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	202,000	185,000	139,000	113,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	168,000	163,000	148,000	121,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	206,000	206,000	104,000	51,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	604,000	584,000	78,000	37,000	Normal	650,000
River Kabul									
• Warsak	540,000				22,000		15,000	Normal	200,000
• Nowshera					43,000		23,000	Normal	200,000
River Swat									
• Chakdara Bridge					9,000		5,000	Normal	150,000
• Munda (H. Works)					11,000		4,000	Normal	150,000
• Charsadda Road	150,000				11,000		3,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	24,000	13,000	9,000	36,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	4,000	NIL	34,000	16,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	42,000	12,000	37,000	6,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	11,000	4,000	12,000	4,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	10,000	NIL	17,000	NIL	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	37,000	22,000	21,000	8,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	23,000	9,000	58,000	42,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		5,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		17,000		22,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	9,000	35,000	9,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	25,000	7,000	22,000	4,000	Normal	90,000
River Sutlej									
• G.S. Wala							8,259	Normal	
• Suleimanki	325,000	598,872	08-10-1955	14,000	1,000	19,000	4,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	2,000	1,000	11,000	9,000	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1532.35	1550.00	1549.21	5.809	5.827	5.764	99.23 %
Chashma	649.00	638.15	645.60	648.60	646.20	0.278	0.258	0.160	57.55 %
Mangla	1242.00	1050.00	1192.55	1191.30	1240.35	7.356	3.806	7.222	98.18 %
Total Live Storage						13.443	9.891	13.146	97.79 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	31.3 °C	28.7 °C	- 2.6 °C
Minimum	11.4 °C	11.3 °C	- 0.1 °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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Islamabad	(Zeropoint=29, Bokra=24, Shamsabad-15, Saidpur-11, Chaklala Airbase=06)
2.	Narowal	09
3.	Murree & Sialkot	08 each
B	Sindh	
4.	Chhor	05
C	Khyber Pakhtunkhwa	
5.	Kakul	18
D	A J & K	
6.	Barnala	12
7.	Kotli	08

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