



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
SUNDAY, SEPTEMBER 10, 2023

The Indus River System's major rivers, including the Indus, Jhelum, Chenab, Ravi, and Sutlej, are all flowing "**Normal**" since September 05, 2023. Owing to less monsoon rains in its catchment areas, inflows coming into **Tarbela reservoir** today (**101,000 cusecs**) are less than the corresponding inflows of last year (**157,000 cusecs**), besides, **Skardu Temperature** today is also **2.2° C** less than the Temperature value observed last year (Ref: **Annexure-I**).

2. At present, **Mangla reservoir** is at **1239.70 feet** against **Maximum Conservation Level (MCL)** of **1242.00 feet** whereas **Tarbela reservoir** is at **1547.90 feet** against **MCL** of **1550.00 feet**. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **12.963 MAF** (i.e. **96.43 %** of **13.443 MAF**). Dam Management Authorities at Tarbela and Mangla are advised to operate the respective dams strictly in accordance with SOPs and safety guidelines.

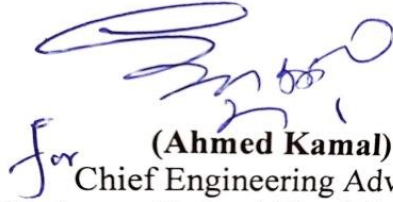
3. Moderate **Moist Currents** from both Arabian Sea & Bay of Bengal are penetrating into upper parts of Pakistan upto 4,000 feet. Since last couple of days, **Seasonal Low** continues to persist over Northeastern Balochistan (Source: FFD, Lahore).

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

5. No significant rainfall event has been observed during the last 24 hours except for Islamabad (30 mm) and AJ&K (Barnala = 36 mm & Palandri = 16 mm). As per FFD Lahore's **Rainfall Outlook (11th to 17th September, 2023)** moderate rainfall activity, **with isolated heavy falls**, 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 flood 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.


(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

Distribution:

5. Secretary, Ministry of Water Resources, Islamabad.
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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 10-09-2023

Rivers and Reservoir Positions September 10, 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	157,000	155,000	101,000	125,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	153,000	145,000	152,000	144,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	214,000	196,000	163,000	150,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	181,000	164,000	141,000	115,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	165,000	159,000	153,000	126,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	185,000	185,000	114,000	59,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	626,000	600,000	75,000	33,000	Normal	650,000
River Kabul									
• Warsak	540,000				20,000		15,000	Normal	200,000
• Nowshera					41,000		24,000	Normal	200,000
River Swat									
• Chakdara Bridge					8,000		5,000	Normal	150,000
• Munda (H. Works)					11,000		3,000	Normal	150,000
• Charsadda Road	150,000				11,000		2,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	18,000	14,000	13,000	36,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	13,000	NIL	35,000	16,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	46,000	15,000	42,000	12,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	15,000	7,000	14,000	6,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	22,000	2,000	18,000	NIL	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	31,000	15,000	20,000	7,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	23,000	9,000	51,000	34,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		7,000	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	30,000	5,000	33,000	7,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	25,000	8,000	21,000	4,000	Normal	90,000
River Sutlej									
• G.S. Wala							4,122	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	8,000	6,000	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	1531.50	1550.00	1547.90	5.809	5.827	5.688	97.92 %
Chashma	649.00	638.15	646.40	648.60	644.20	0.278	0.258	0.105	37.77 %
Mangla	1242.00	1050.00	1192.25	1191.40	1239.70	7.356	3.812	7.170	97.47 %
Total Live Storage						13.443	9.897	12.963	96.43 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	31.4 °C	29.2 °C	- 2.2 °C
Minimum	19.4 °C	9.3 °C	- 10.1 °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.