



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 17, 2023

Presently, there is no flood situation in the country as all the major rivers of Indus River System (IRS) i.e. Rivers Indus, Jhelum, Chenab, Ravi & Sutlej are flowing in “**Normal Flow Condition**”. Today's, water level of **Tarbela reservoir** is **1547.05 feet** against **Maximum Conservation Level (MCL)** of **1550 feet** whereas **Mangla reservoir** is at **1235.40 feet** against MCL of **1242 feet**. **Annexure-I** is referred for Inflows/ Outflows of major rivers at respective control structures, storage position of Tarbela, Chashma & Mangla reservoirs including Skardu temperature.

2. According to FFD Lahore, yesterday's trough of **Westerly Wave** over Northern parts of Pakistan continues to persist. Yesterday's **Well Marked Low** over central parts of Madhya Pradesh (India) today lies over Southeastern Rajasthan (India) and adjoining areas. **Light to Moderate** moist currents from Arabian Sea & Bay of Bengal are penetrating into lower half of Pakistan upto 7000 feet. These are likely to intensify. Whereas **Seasonal Low** lies over Western Balochistan.

3. **For the next 24 hours**, FFD, Lahore has predicted scattered wind thunderstorm/ rain of **Moderate Intensity** with **Isolated Heavy Falls** over **Islamabad, Punjab** (Rawalpindi, Gujranwala, Sargodha, Lahore, Faisalabad, Sahiwal, Divisions), **Southern Sindh, Khyber Pakhtunkhwa** (Peshawar, Kohat, Bannu & D.I. Khan Divisions) including over the upper catchments of all major rivers of IRS. Isolated wind thunderstorm/rain of **Light to Moderate Intensity** is expected over **Punjab (Multan, D.G. Khan & Bahawalpur Divisions)** and **Eastern Balochistan**. Significant rainfall events reported during past 24 hours may be seen at **Annexure-II**.

4. **Weather and Flood Outlook upto 20th September 2023 (Source: FFD, Lahore):**

Monsoon activity is likely to **increase** over **Southern Sindh** and **Eastern Balochistan**. **Moderate** rainfall activity with **Isolated Heavy Falls** is expected over the upper catchments of all the Major Rivers.

According to latest Hydro-meteorological conditions, FFD, Lahore has predicted as follows:

- **River Jhelum** at Mangla (upstream) is likely to attain **Low to Medium flood level** during next 48 hours.
- **River Chenab & River Kabul** are likely to attain **Low to Medium flood level** during next 48 hours.

5. All concerned organizations are advised to remain **ALERT**, monitor the weather and flood situation regularly and ensure fool proof precautionary measures to avoid any loss of precious human lives and damage to public & private properties.

6. Pakistan Meteorological Department (PMD), Islamabad through FFD, Lahore is monitoring the present weather system and is keeping all concerned fully cognizant of the situation.

(Ahmed Kamal)
Chief Engineering Adviser/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.

Distribution:

3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
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.
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14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
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18. Member (Water), WAPDA, WAPDA House, Lahore.
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22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
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24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
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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 17-09-2023

Rivers and Reservoir Positions September 17, 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	101,000	102,000	145,000	122,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	108,000	100,000	142,000	134,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	140,000	121,000	149,000	145,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	140,000	137,000	120,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	155,000	140,000	120,000	92,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	153,000	151,000	92,000	42,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	351,000	327,000	48,000	7,000	Normal	650,000
River Kabul									
• Warsak	540,000				16,000		19,000	Normal	200,000
• Nowshera					30,000		28,000	Normal	200,000
River Swat									
• Chakdara Bridge					7,000		4,000	Normal	150,000
• Munda(H. Works)					9,000		4,000	Normal	150,000
• Charsadda Road	150,000				8,000		3,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	45,000	22,000	18,000	30,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	10,000	NIL	25,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	42,000	12,000	26,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	17,000	9,000	31,000	23,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	11,000	NIL	53,000	31,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	29,000	14,000	36,000	23,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	17,000	3,000	18,000	1,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		7,000		8,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		15,000		30,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	31,000	3,000	43,000	17,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	19,000	2,000	24,000	6,000	Normal	90,000
River Sutlej									
• G.S. Wala							NIL	Normal	
• Suleimanki	325,000	598,872	08-10-1955	16,000	3,000	18,000	4,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	1,000	NIL	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1528.52	1550.00	1547.05	5.809	5.827	5.693	98.00 %
Chashma	649.00	638.15	647.20	648.60	642.20	0.278	0.258	0.062	22.30 %
Mangla	1242.00	1050.00	1191.50	1193.05	1235.40	7.356	3.911	6.836	92.93 %
Total Live Storage						13.443	9.996	12.591	93.66 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	29.8 °C	31.6 °C	+ 1.8 °C
Minimum	13.4 °C	16.3 °C	+ 2.9 °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/Rawalpindi	(Saidpur-59, New Airport=41, Bokra=33, Golra=15, Zero point=14, Shamsabad=13, Chaklala Airbase=11)
2.	Attock	38
3.	Kamra (Airbase)	14
4.	Kallar	08
C	Khyber Pakhtunkhwa	
5.	Tarbela	21
6.	Khaar-Bajaur	10
7.	Cherat	08
8.	Lower Dir	05
D	AJ & K	
9.	Palandri	19
10.	Kotli	13

Source: FFD, Lahore: 042-99200139