



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**  
**FRIDAY, AUGUST 23, 2024**

Indus River continues to flow in a "Medium Flood" in Guddu-Sukkur reach while maintaining "Low Flood" in Tarbela-Taunsa reach as well as at Kotri Barrage. Rest of the major rivers of the Indus River System (IRS) i.e. Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. Detailed information regarding river flow situation and reservoir storage position is provided at **Annexure-I**.

2. Tarbela reservoir is maintaining Maximum Conservation Level (MCL) of 1550 feet since August 19, 2024 whereas water level in Mangla Reservoir is at **1215.70 feet** against its MCL: 1242 feet. Combined live storage of Tarbela, Chashma and Mangla reservoirs stands at **11.179 MAF**, representing **83.71%** of the total live storage capacity of **13.354 MAF**. WAPDA Authorities both at Tarbela & Chashma and field formations of Punjab & Sindh Irrigation Departments are exercising utmost care and extra vigilance in the reservoir/ barrage operation for effective flood routing and for the overall protection of flood embankments.

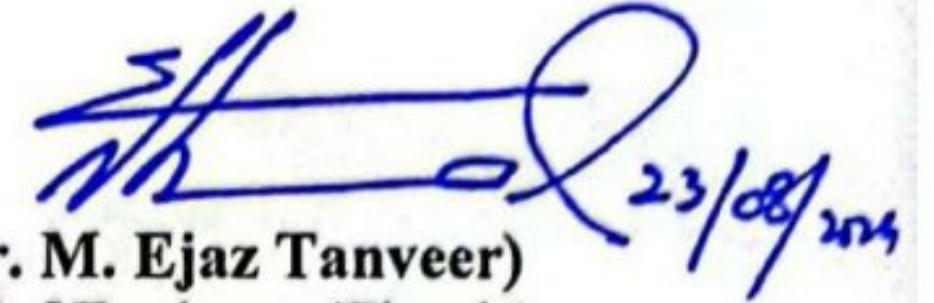
3. According to FFD, Lahore, yesterday's Low Pressure Area over North Bay of Bengal has moved Westwards and today lies over Western Bengal and adjoining Jharkhand (India). It is expected to intensify into Depression and continue moving Westward, then South-westward over the next three days. Meanwhile, another Low Pressure Area, previously over Central Uttar Pradesh has shifted Westward and now lies over Western Uttar Pradesh (India). Trough of Westerly Wave earlier over Northern Pakistan has moved away eastwards and a fresh trough of Westerly Wave lies over Northern Iran with the Seasonal Low over Northern Balochistan. Presently, light moist currents from both the Arabian Sea and Bay of Bengal were penetrating into upper parts of Pakistan at the reporting time.

4. Mainly dry weather is expected across most parts of Pakistan. Nonetheless, isolated thunderstorm rain of **Moderate Intensity** is expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & D.G.Khan Divisions), Khyber Pakhtunkhwa and Balochistan (Zhob & Kalat Divisions)** including upper catchments of all major rivers of IRS. No significant rainfall event has been reported, except for **Khyber Pakhtunkhwa (Pattan & Khaar-Bajaur= 8 mm each) and Balochistan (Zhob= 9 mm)**.

5. No significant change in weather is expected until August 25, 2024. However, due to the anticipated intensification and Westward/South-westward movement of the Low-Pressure Area over West Bengal, widespread thunderstorm rain of **Heavy to Very Heavy** intensity with isolated **Extremely Heavy Falls** may occur over **Southern Punjab (D.G.Khan, Multan & Bahawalpur Divisions), Sindh and Balochistan (Zhob, Sibbi, Nasirabad, Loralai, Kalat and Makran Divisions)** starting from **26<sup>th</sup> August 2024**. As a result, **Severe Flash Flood** situation is expected to develop along the Sulaiman and Kirthar ranges including nullahs in Balochistan from **27<sup>th</sup> August 2024, onwards (Source: FFD, Lahore)**.

6. All concerned organizations are advised to remain on **Alert** and to take prompt action in response to Flood Warnings issued by the relevant authorities in order to ensure safety of the communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

7. Round-The-Clock monitoring of the prevailing weather system is being done by Pakistan Meteorological Department (PMD), through FFD, Lahore and is keeping all relevant abreast 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.
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.

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38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
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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 23-08-2024**

**Rivers and Reservoir Positions**  
**August 23, 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
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	229,000	144,000	200,000	257,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	257,000	249,000	281,000	275,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	223,000	202,000	342,000	323,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	204,000	185,000	353,000	341,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	255,000	224,000	382,000	374,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	211,000	159,000	401,000	381,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	154,000	113,000	265,000	227,000	Low Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				42,000		32,000	Normal	200,000
• Nowshera					34,000		56,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge					10,000		7,000	Normal	150,000
• Munda (H. Works)					11,000		8,000	Normal	150,000
• Charsadda Road	150,000				11,000		10,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	20,000	22,000	30,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	19,000	16,000	2,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	77,000	49,000	58,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	60,000	52,000	46,000	38,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	46,000	36,000	43,000	25,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	62,000	53,000	49,000	39,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	79,000	63,000	66,000	57,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		20,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		29,000		18,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	26,000	45,000	17,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	35,000	17,000	25,000	13,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	170,000	170,000	19,000	7,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	58,000	56,000	9,000	7,000	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	1550.00	1549.32	1550.00	5.766	5.770	5.766	100 %
Chashma	649.00	638.15	642.00	649.00	644.00	0.311	0.278	0.112	36.01 %
Mangla	1242.00	1050.00	1177.85	1241.80	1215.70	7.277	7.340	5.301	72.85 %
<b>Total Live Storage</b>						<b>13.354</b>	<b>13.388</b>	<b>11.179</b>	<b>83.71 %</b>

**C. Skardu Temperature:**

Skardu Temperature	Last year 2023	Today 2024	Difference (+/-)
Maximum	34.7 °C	30.5 °C	- 4.2 °C
Minimum	19.3 °C	14.4 °C	- 4.9 °C

**NOTE-1: "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

**NOTE-2: "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

**NOTE-3: \* Flood Classification: (applied on downstream discharge/Outflow)**

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

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

**NOTE-4:** Maximum Live Storage Capacity has increased from 13.321 MAF to 13.354 MAF due to de-silting of Chashma Barrage causing increase in its Live Storage Capacity from 0.278 MAF to 0.311 MAF.