



**FEDERAL FLOOD COMMISSION'S
DAILY WEATHER & FLOOD SITUATION REPORT
SUNDAY, AUGUST 25, 2024**

River Indus is presently experiencing "**Medium Flood**" condition in **Guddu-Sukkur** reach and in "**Low Flood**" condition at **Kotri Barrage**. All other major rivers in the Indus River System (IRS) including the Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. **Annexure-I** provides details on the inflows and outflows of major rivers at key control structures, the storage positions of reservoirs and the temperature in Skardu as of 0600 hours today.

2. Tarbela Reservoir is maintaining its Maximum Conservation Level (MCL) of **1550 feet** since **August 19, 2024** while the Mangla Reservoir stands at an elevation of **1216.35 feet** against its MCL of **1242 feet**. The total combined live storage of the country's major reservoirs (Tarbela, Chashma and Mangla) as of today stands at **11.330 MAF**, which is **84.84%** of the total available storage capacity of **13.354 MAF**. Due to the high water level in the Reservoir, Tarbela Dam Management is advised to exercise utmost caution in regulating the reservoir, strictly adhering to approved SOPs and Dam Safety Guidelines to safeguard downstream communities in case of high flows.

3. Due to significant speed divergence in the Arabian Sea and Bay of Bengal, coupled with directional convergence over Madhya Pradesh (India), **Low Pressure Area** has intensified into a **Depression** over northwestern Madhya Pradesh (India) and its trough is extending into neighboring Rajasthan. As the **Depression** moves closer to the Arabian Sea, it is expected to strengthen further into a **Deep Depression**. Regarding the other Weather Systems, the trough of the Westerly Wave that was previously over Northeastern Iran is now situated over Northern Afghanistan. Additionally, the Seasonal Low is located over northern Balochistan. Light moist currents from Bay of Bengal are penetrating into the upper parts of Pakistan, while moderate to strong moist currents from both Bay of Bengal and Arabian Sea are penetrating into Southern Sindh and adjacent areas up to 5000 feet. It is anticipated that this system will intensify during the next four days (**Source: FFD, Lahore**).

4. For the next 24 hours, FFD, Lahore has predicted mainly dry weather over most parts of the country. Nonetheless, isolated thunderstorm rain of **Moderate Intensity** is expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & DG Khan Divisions), Khyber Pakhtunkhwa and Balochistan (Zhob & Kalat Divisions)** including upper catchments of all major rivers of IRS. During the same period, scattered thunderstorm rain of **Moderate Intensity** with isolated **Heavy Falls** may occur over **Southeastern Sindh**. Few rainfall events have been reported during the past 24 hours: **Sindh (Mithi = 29 mm & Mirpur Khas=12 mm)** and **Balochistan (Lasbela=12 mm)**.

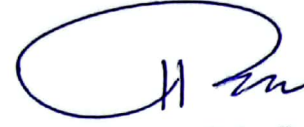
5. For the extended period from **26th August to 30th August 2024**, no significant change is expected over the upper half of Pakistan, however due to likely further intensification and westward movement of the prevailing **Strong Weather System**, widespread thunderstorm rain of **Heavy to Very Heavy** intensity with isolated **Extremely Heavy Falls** may occur over **Southern Punjab (DG Khan, Multan and Bahawalpur divisions), Sindh (all Divisions) and Balochistan (Zhob, Sibbi, Nasirabad, Loralai, Kalat & Makran divisions)** during the same period.

6. As a result, **Flood Situation** has been predicated by FFD, Lahore between **27th to 31st August 2024**, which is as under;

- **Severe Flash Flooding** in the areas along **Kirthar Ranges (Jacobabad, Qambar, Shahdadkot, Dadu and Jamshoro Districts)** and **Sulaiman ranges (DG Khan & Rajanpur Districts)** including nullahs in **Balochistan (Zhob, Loralai, Sibbi, Nasirabad & Kalat Divisions)**
- **Urban flooding** in the metropolitan cities of **Sindh**.

7 All relevant organizations are advised to remain on **Alert** and to take immediate action in response to warnings issued by the authorities in order to ensure the safety of communities living in low-lying areas. Additionally, all pre-emptive measures be ensured to protect public and private properties, as well as irrigation and drainage networks and flood protection structures.

8. Pakistan Meteorological Department (PMD), through FFD, Lahore is continuously monitoring the current weather conditions, particularly the **Depression** (lying over northwestern Madhya Pradesh, India), its further movement and potential impacts on Pakistan on Round-the-Clock and is keeping all relevant organizations fully cognizant of the situation.



(Hussain Shigri)
Superintending 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.
38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.

Distribution:

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 25-08-2024**

**Rivers and Reservoir Positions
August 25, 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	260,000	256,000	155,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	285,000	277,000	196,000	190,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	288,000	263,000	166,000	145,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	231,000	209,000	218,000	206,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	250,000	219,000	375,000	371,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	210,000	156,000	375,000	368,000	Med Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	154,000	113,000	287,000	264,000	Low Flood (R)	650,000
River Kabul									
• Warsak	540,000				43,000		25,000	Normal	200,000
• Nowshera					43,000		43,000	Normal	200,000
River Swat									
• Chakdara Bridge					9,000		7,000	Normal	150,000
• Munda (H. Works)					10,000		6,000	Normal	150,000
• Charsadda Road	150,000				10,000		5,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	23,000	26,000	22,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	23,000	20,000		NIL	Normal	225,000
						3,000			
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	79,000	49,000	61,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	58,000	50,000	37,000	29,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	51,000	41,000	32,000	14,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	62,000	53,000	52,000	42,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	81,000	64,000	69,000	61,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		26,000		3,000	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	41,000	23,000	40,000	12,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	37,000	19,000	23,000	10,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	106,000	95,000	17,000	6,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	137,000	136,000	7,000	5,000	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	1548.70	1550.00	5.766	5.734	5.766	100 %
Chashma	649.00	638.15	642.00	648.80	647.10	0.311	0.268	0.217	69.77 %
Mangla	1242.00	1050.00	1179.30	1241.70	1216.35	7.277	7.332	5.347	73.48 %
Total Live Storage						13.354	13.334	11.330	84.84 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+/-)
Maximum	25.0 °C	30.6 °C	+ 5.6 °C
Minimum	14.2 °C	13.3 °C	- 0.9 °C

NOTE-1: "Mild" Categories

Low Flood:

Medium Flood:

High Flood:

River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas

River partly inundating river islands/belas

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):

Exceptionally High Flood (EHF):

River flowing between high banks/bunds with encroachment on the freeboard

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 & 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.