



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**  
**THURSDAY, AUGUST 15, 2024**

Owing to heavy rainfall in the catchment areas, River Chenab at Marala Barrage is experiencing Medium Flood (Rising Trend), discharging 158,266 cusecs at 11:00 hours today. River Indus is also in Medium Flood at Guddu Barrage and in Low Flood in Tarbela-Taunsa reach and at Sukkur Barrage. River Kabul (a right tributary of Indus River) is in Low Flood at Warsak. Rest of major rivers of Indus River System i.e. rivers Jhelum, Ravi and Sutlej are discharging normal flows. Annexure-I depicts detailed information on inflows/ outflows of major rivers at important control structures, water levels and storage position of reservoirs including the temperature at Skardu.

2. Tarbela reservoir is approaching its Maximum Conservation Level (MCL) with the current water level at 1548 feet (just 2 feet below its MCL: 1550 feet). In contrast, Mangla reservoir still has significant storage capacity available, with 30.75 feet remaining before reaching its MCL. Combined live storage of the country's major reservoirs (Tarbela, Mangla, and Chashma) stands at 10.649 MAF, which is 79.74% of the total live storage capacity of 13.354 MAF. In view of the higher water levels, the management of Tarbela Dam is advised to remain vigilant and to ensure that the reservoir is filled in accordance with the approved SOPs and dam safety guidelines.

3. According to the FFD, Lahore, yesterday" Upper Air Cyclonic Circulation over Northeastern Rajasthan (India) remained stationary there. Trough of Strong Westerly Wave previously over Northern Iran is now positioned over Northeastern Iran and adjoining Afghanistan. This system is expected to impact the upper catchments of all major rivers starting today. Meanwhile, Seasonal Low lies over Northern Balochistan. At present, moderate moist currents from the Arabian Sea are penetrating into most parts of Pakistan up to 5000 feet.

4. For the next 24 hours, FFD, Lahore has predicted scattered thunderstorm rain of Moderate Intensity with isolated Heavy Falls over Punjab (Faisalabad, Sahiwal, Multan & Bahawalpur Divisions), Sindh and Balochistan (Zhob, Nasirabad, Sibbi & Kalat Divisions). During the same period, widespread thunderstorm rain of Moderate to Heavy Intensity with Isolated Very Heavy Falls may occur over Islamabad, Punjab (Rawalpindi & Gujranwala Divisions) and Khyber Pakhtunkhwa including upper catchments of rivers Indus, Kabul & Jhelum besides, scattered to widespread thunderstorm rain of Moderate Intensity with isolated Heavy to Very Heavy Falls over Punjab (Sargodha, Lahore and D.G.Khan Divisions) including upper catchments of rivers Chenab, Ravi and Sutlej. Few rainfall events have been observed during past 24 hours. Details may be seen at Annexure-II.

5. According to latest hydro-meteorological conditions, High Level flood ranging between 200,000 Cusecs to 250,000 Cusecs is anticipated in River Chenab at Marala, Khanki & Qadirabad Barrages including nullahs in rivers Chenab and Ravi catchments during the next 24 hours. Wet spell is likely to continue during the next 48 hours (Source: FFD, Lahore).


## Extended Weather Outlook (16<sup>th</sup> to 22<sup>nd</sup> August 2024)

6. Monsoon activity of **Moderate to Heavy Intensity with Scattered Very Heavy Falls** is expected over the upper catchments of all the major rivers. Flood situation between **15<sup>th</sup> to 17<sup>th</sup> August 2024** is predicated as under;

- **Medium to High flows** in river Jhelum at Mangla (Upstream) and river Chenab at Marala, Khanki and Qadirabad including Nullahs in the catchments of rivers Chenab and Ravi.
- **Low to Medium flows** in river Kabul at Nowshera and in river Indus at Tarbela including hill torrents in **D.G.Khan Division (Punjab)** and Nullahs in Sibbi, Nasirabad, Zhob and Kalat Divisions (**Balochistan**).

7. All Relevant Organizations are advised to remain on **Alert and Vigilant** and to take prompt action in response to warnings issued by the relevant authorities 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.

8. Pakistan Meteorological Department (PMD), Islamabad, through its specialized Flood Forecasting Unit (FFD Lahore), is monitoring the present weather system on round-the-clock basis and keeping all relevant organizations fully cognizant of the situation.

  
(Dr. M. Ejaz Tanveer)  
Chief Engineer Floods

For, Chairman, Federal Flood Commission

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35. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
36. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
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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 15-08-2024**

**Rivers and Reservoir Positions  
August 15, 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 (VIF) 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	240,000	251,000	285,000	255,000	Low Flood (S)	650,000
• Kalabagh	950,000	950,000	14-7-1942	255,000	247,000	304,000	296,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	258,000	237,000	315,000	301,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	235,000	217,000	366,000	339,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	235,000	203,000	388,000	357,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	238,000	183,000	390,000	347,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	180,000	140,000	195,000	156,000	Normal	650,000
<b>River Kabul</b>									
• Warsak	540,000				27,000		45,000	Low Flood (R)	200,000
• Nowshera					41,000		56,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge					12,000		8,000	Normal	150,000
• Munda (H. Works)					17,000		11,000	Normal	150,000
• Charsadda Road	150,000				15,000		10,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	38,000	10,000	22,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	8,000	5,000	4,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	95,000	65,000	82,000	64,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	66,000	58,000	73,000	65,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	52,000	42,000	61,000	43,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	61,000	48,000	76,000	62,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	77,000	61,000	49,000	36,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		24,000		9,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		31,000		12,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	42,000	19,000	48,000	20,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	29,000	11,000	21,000	8,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	46,000	32,000	24,000	13,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	37,000	34,000	6,000	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	1546.70	1549.04	1548.00	5.766	5.754	5.651	98.01 %
Chashma	649.00	638.15	642.00	647.00	638.60	0.311	0.188	0.007	2.25 %
Mangla	1242.00	1050.00	1170.60	1240.60	1211.25	7.277	7.242	4.991	68.59 %
<b>Total Live Storage</b>						<b>13.354</b>	<b>13.184</b>	<b>10.649</b>	<b>79.74 %</b>

**C. Skardu Temperature:**

Skardu Temperature	Last year 2023	Today 2024	Difference (+/-)
Maximum	32.7 °C	35.6 °C	+ 2.9 °C
Minimum	14.3 °C	19.0 °C	+ 4.7 °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 or 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.

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	Jhelum	30
2.	Mangla	25
3.	Gujranwala & Sialkot	19 each
4.	Marala	11
<b>B</b>	<b>Khyber Pakhtunkhwa</b>	
5.	Kakul	17
<b>C</b>	<b>AJ&amp;K</b>	
6.	Kotli	42
7.	Barnala	19
8.	Panjera	15

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