

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  
MONDAY, SEPTEMBER 02, 2024

At present, River Indus is experiencing “Low Flood” at Guddu Barrage and “Medium Flood” at Kotri Barrage (last control structure on the Indus River before it reaches the Arabian Sea). Other major rivers in the Indus River System i.e. Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. Detailed information on the inflows/outflows of these rivers, storage positions of major reservoirs and temperature data at Skardu can be found in **Annexure-I**.

2. Since August 19, 2024, Tarbela Reservoir has been maintaining its Maximum Conservation Level (MCL) of 1550.00 feet. However, the Mangla Reservoir is currently at an elevation of 1223.25 feet, which is 18.75 feet below its MCL of 1242 feet. Combined live storage of the country's major reservoirs (Tarbela, Chashma & Mangla) stands at 11.892 MAF which is 89.05% of the total live storage capacity of 13.354 MAF. Tarbela Dam Management is advised to exercise the utmost care in regulating the reservoir in accordance with the approved SOPs and Dam Safety Guidelines to ensure the protection of downstream areas in the event of high inflows.

3. According to the FFD, Lahore, yesterday's Well Marked Low over South Odisha (India) has moved Westwards and is now positioned over Southwestern Chhattisgarh (India). Trough of Westerly Wave previously over Northern Afghanistan has shifted and now lies over Northeastern Afghanistan and adjoining areas of Pakistan. Also, Seasonal Low lies over Northwestern Balochistan. Moderate moist currents from both the Bay of Bengal and the Arabian Sea presently were penetrating into upper parts of Pakistan at the reporting time today.

4. FFD Lahore has predicted, scattered to widespread thunderstorm rain of Moderate to Heavy Intensity with isolated Very Heavy Falls over Islamabad, Punjab (Rawalpindi Division), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions) and Balochistan (Zhob Division) including upper catchments of rivers Indus, Jhelum and Kabul (including its tributaries). During the same period, scattered thunderstorm rain of Moderate Intensity with isolated Heavy Falls may occur over Punjab (Lahore, Gujranwala, Sargodha, Faisalabad, Sahiwal & D.G.Khan Divisions), Balochistan (Loralai & Sibbi Divisions) and Sindh (Mirpur Khas Division) including upper catchments of rivers Chenab, Ravi and Sutlej besides, isolated thunderstorm rain of Moderate Intensity over Punjab (Multan & Bahawalpur Divisions), Sindh (Larkana & Sukkur Divisions) and Balochistan (Nasirabad & Kalat Divisions).

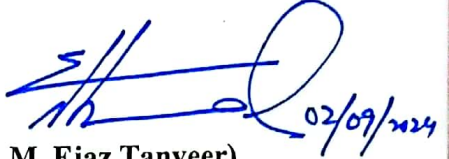
5. Few rainfall events have been reported during past 24 hours: Khyber Pakhtunkhwa (Pattan 20 mm), Gilgit-Baltistan (Bagrote=10 mm), AJ&K (Bandi Abbaspur-15 mm & Dhulli=12 mm).

6. The wet spell is expected to continue with the same intensity over the next 48 hours. However, for the extended period from September 3<sup>rd</sup> to September 9<sup>th</sup>, 2024, scattered to widespread thunderstorms rain of moderate to Heavy Intensity with isolated Very Heavy Falls are anticipated over the upper catchments of rivers Indus, Jhelum and Kabul (including their tributaries). Additionally, rain of moderate intensity with isolated Heavy Falls is expected over the upper catchments of rivers Chenab, Ravi and Sutlej until September 3<sup>rd</sup>, 2024. Monsoon activity is expected to subdue thereafter. As a result, during the next 48 hours, High flows are expected in the Jhelum River at Mangla (Upstream), Medium flows in the

Kabul River and its tributaries, and **Low flood** levels in the river Indus. Flows in the river Chenab, including the nullahs of the rivers Chenab and Ravi may also rise.

7. **All Relevant Organizations are advised to remain Fully Alert and Vigilant** and to take prompt action in response to warnings issued by the relevant authorities to ensure the safety of communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

8. PMD, Islamabad through its specialized Flood Forecasting Unit (FFD, Lahore) is closely monitoring the prevailing weather system and is keeping all concerned organizations fully cognizant of the situation.



(Dr. M. Ejaz Tanveer)  
Chief Engineer Floods

For, Chairman, Federal Flood Commission

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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.
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6. Secretary, Ministry of Water Resources, Islamabad.
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8. Secretary, Ministry of Climate Change & Environmental Coordination, Islamabad.
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10. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
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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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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 02-09-2024**

## Rivers and Reservoir Positions September 02, 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	124,000	130,000	168,000	156,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	126,000	118,000	197,000	192,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	131,000	114,000	250,000	226,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	144,000	119,000	212,000	190,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	281,000	251,000	233,000	208,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	263,000	209,000	192,000	171,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	149,000	108,000	340,000	336,000	Med Flood (S)	650,000
<b>River Kabul</b>									
• Warsak	540,000				15,000		20,000	Normal	200,000
• Nowshera					24,000		32,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge					6,000		6,000	Normal	150,000
• Munda (H. Works)					5,000		8,000	Normal	150,000
• Charsadda Road	150,000				4,000		7,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	15,000	15,000	50,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	8,000	NIL	7,000	5,000	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	53,000	22,000	52,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	16,000	7,000	44,000	37,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	16,000	NIL	37,000	19,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	40,000	23,000	39,000	29,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	103,000	86,000	52,000	43,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		6,000		5,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		23,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	31,000	8,000	47,000	21,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	22,000	5,000	33,000	23,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	67,000	53,000	17,000	7,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	74,000	72,000	11,000	10,000	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	1550.00	1550.00	5.766	5.809	5.766	100 %
Chashma	649.00	638.15	648.10	648.00	648.50	0.311	0.227	0.285	91.64 %
Mangla	1242.00	1050.00	1187.45	1242.00	1223.25	7.277	7.356	5.841	80.27 %
<b>Total Live Storage</b>						<b>13.354</b>	<b>13.392</b>	<b>11.892</b>	<b>89.05 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference ( + / - )
Maximum	31.7 °C	26.6 °C	- 5.1 °C
Minimum	15.3 °C	15.1 °C	- 0.2 °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 & 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.