



**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
SUNDAY SEPTEMBER 04, 2022**

Rivers Hydrological Situation:

River Indus continues to flow in “**High Flood**” in **Sukkur-Kotri Reach** while it is in “**Medium Flood**” at **Guddu**. It is discharging **Normal Flows** at rest of its control structures (**Tarbela, Kalabagh, Chashma and Taunsa**). Flood flows in **River Kabul** (a tributary of River Indus) at **Nowshera** have receded further, with “**Normal Flow**” being observed at the reporting time today.

2. Other main Rivers of Indus River System i.e Jhelum, Chenab, Ravi & Sutlej continues to flow with Normal discharges. For main rivers inflows/outflows at important control structures, at 0600 hours today **Annexure-I** is referred.

Reservoirs Storage Position:

3. **Tarbela Reservoir** Management authorities are maintaining it at its **Maximum Conservation Level (MCL)** of **1550.00 feet** since **28th August 2022**, whereas **Mangla Dam** is at an **El: 1188.55 feet** against its **MCL: 1242 feet (50.41 % storage still left)**. In view of present inflows at Mangla, it is less likely that it will attain its MCL. Water Level in **Chashma Reservoir** is at an Elevation of **648.60 feet** (Just 0.40 feet below its **MCL: 649.00 feet**). Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.733 MAF** (i.e. **72.31 % of 13.461 MAF**). WAPDA Authorities both at Tarbela & Chashma and field formations of Punjab & Sindh Irrigation Departments are continuing with their extra vigilance in the reservoir/ barrage operations for effective flood routing.

Prevalent Meteorological Situation:

4. Yesterday's trough of **Westerly Wave** over Northeastern Afghanistan and adjoining areas today lies over Northern parts of Pakistan whereas **Seasonal Low** lies over Northeastern Balochistan and adjoining areas. At present, **Moderate Moist Currents** from Arabian Sea are penetrating into upper parts of the Pakistan up to 5000 feet.

Next 24 hours Weather & Rainfall Forecast:

5. According to FFD Lahore, **Scattered Thunderstorm/Rain** of **Moderate Intensity** with **Isolated Heavy Falls** is expected over upper catchments of all the Major Rivers along with **Khyber Pakhtunkhwa, Islamabad and Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & Faisalabad Divisions)** during the next 24 hours. No significant rainfall event has been reported for the past 24 hours except for Islamabad = 31 mm and AJ&K (Muzaffarabad = 31 mm, Kotli = 23 mm & Dhulli = 18 mm).

Next 48 hours Flood Forecast:

6. Owing to the prevailing weather condition, **Low to Medium Flood** situation is expected in the **Tributaries/Nullahs of Rivers Ravi & Chenab** along with **River Kabul & its Tributaries** during the next 48-hours.

Weather Outlook & Flood Forecast (5th to 11th September 2022):

7. A fresh “**Wet Spell**” of moderate intensity is likely to start over the upper catchments of all the **Major Rivers** from **10th September 2022**. **High Level Flooding** is likely to continue in **River Indus at Kotri** (Source: FFD, Lahore).

Continued Precautionary Measures By Concerned Organizations:

8. All concerned organizations including field formations of Irrigation Department Sindh are continuing with their unhalted watch and patrolling of flood embankments especially those which are sustaining high water pressure. Prompt flood fighting as and when needed to protect flood protection infrastructures is also being exercised. Further they are advised to remain on “High Alert”, take all necessary precautionary measures as per their respective flood fighting and Contingency Plans.


Specific Directions for Dam/Reservoir/Barrages Management Organizations:

9. Managers of major reservoirs/barrages, in particular of **Guddu, Sukkur & Kotri** are advised to continue with present river Indus flood discharge management for effective flood routing.

10. O/o Pakistan Commissioner for Indus Water (PCIW) is to ensure availability of more latest **Flood/ Base Flow Data on Indian Structures/ Reservoirs on Rivers Sutlej, Beas and Ravi** as these structures are approaching close to their Maximum Conservation Levels (MCLs) as the monsoon season is still ongoing.

11. All concerned organizations including **PDMAs/DDMAs** are also advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

12. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country and is keeping all concerned fully informed through FFD, Lahore.



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

Distribution:

1. Minister for Water Resources, Islamabad.
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3. Minister for Climate Change, Islamabad.
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5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad
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13. Chairman, Indus River System Authority, Islamabad.
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34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
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41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
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.

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Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 04, 2022 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	97,000	157,000	175,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	181,000	174,000	182,000	174,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	182,000	167,000	236,000	218,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	155,000	136,000	205,000	199,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	130,000	100,000	485,000	485,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	98,000	45,000	545,000	545,000	High Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	24,000	NIL	585,000	572,000	High Flood (R)	650,000
River Kabul									
• Warsak	540,000				14,000		26,000	Normal	200,000
• Nowshera		450,000	29-07-2010		16,000		56,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		7,000		12,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		3,000		14,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		14,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	15,000	34,000	25,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	32,000		3,000	NIL	Normal	225,000
					12,000				
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	35,000	5,000	53,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	7,000	NIL	36,000	28,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	16,000	NIL	28,000	8,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	20,000	4,000	32,000	16,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	14,000	NIL	27,000	14,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		7,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		18,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	31,000	2,000	34,000	7,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	NIL	20,000	3,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	17,000	5,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1550.00	1544.00	1550.00	5.827	5.539	5.827	100 %
Chashma	649.00	638.15	640.00	643.40	648.60	0.278	0.087	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1195.80	1188.55	7.356	4.076	3.648	49.59 %
Total Live Storage						13.461	9.702	9.733	72.31 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	27.4 °C	31.4 °C	+ 4.0 °C
Minimum	10.4 °C	12.0 °C	+ 1.6 °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 freeboards

"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/ Historic Peak Floods: (applied on downstream discharge/Outflow)

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