



**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 SEPTEMBER 01, 2022**

Rivers Hydrological situation:

River Indus at reporting time is flowing in “**High Flood**” in **Taunsa–Guddu-Sukkur Reaches** with “**Medium Flood**” at **Kotri** (the last control structure on Indus River before Arabian Sea). It is flowing in “**Low Flood**” at its upstream location (i.e. at **Chashma**) and under **Normal Flow Conditions** at **Tarbela & Kalabagh**. Flood flows in **River Kabul** (a tributary of River Indus) at **Nowshera** are continuously receding. Presently it is flowing in “**Low Flood**” (77,000 cusecs at 1230 hours today) at **Nowshera** and in Normal Flow Condition at **Warsak** (upstream Nowshera).

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

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**. **Mangla Dam** at present is at **El: 1186.80 feet** against its **MCL: 1242 feet (51.74 % storage still left)**, whereas **Chashma Reservoir** is at an Elevation of **644.30 feet**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.485 MAF** (i.e. **70.46 % of 13.461 MAF**). WAPDA Authorities both at Tarbela & Chashma and field formations of Punjab & Sindh Irrigation Departments continuing with their extra vigilance in the reservoir/ barrage operation for effective flood routing and for the overall protection of river flood infrastructure down the line.

Prevalent Meteorological Situation (Source: FFD, Lahore):

4. Yesterday's trough of **Westerly Wave** over Northern parts of Pakistan has moved away eastwards whereas **Weak Seasonal Low** lies over Northeastern Balochistan and adjoining areas. At present, **Weak Moist currents** from Arabian Sea are penetrating into central parts of Pakistan upto 3000 feet.

Weather & Rainfall Forecast (Next 24 hours):

5. Mainly dry weather has been predicted by FFD, Lahore over most parts of the country; however isolated thunderstorm/rain is expected over the upper catchments of all the Major Rivers. No significant rainfall events has been reported by FFD, Lahore during the past 24 hours except for Khyber Pakhtunkhwa (Daggar=30 mm).

Weather Outlook and Flood Forecast (2nd to 8th September 2022):

6. According to FFD, Lahore, **Scattered Thunderstorm /Rain with Isolated Heavy Falls** is expected over upper catchments of all the Major Rivers from **4th to 6th September, 2022**. For the same period, **Medium to High Level Flood** is likely to continue in **River Indus** (downstream Chashma).

Continued Precautionary Measures By Concerned Organizations:

7. All concerned organizations including field formations of **Irrigation Departments Punjab and Sindh** are strictly advised to ensure continued unhalting watch and patrolling of flood embankments especially those which are sustaining high water pressure and ensure prompt flood fighting as and when needed to protect flood protection infrastructures. Further 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:

8. Managers of major reservoirs/barrages, in particular of **Taunsa, Guddu & Sukkur** are advised to continue with present flood discharge management for effective flood routing downstream.
9. Further to above, 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.
10. 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.
11. 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

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 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.
- U.O. No.FC-I (31)/2022, Dated 01-09-2022**

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 01, 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	112,000	58,000	181,000	206,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	115,000	108,000	252,000	246,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	176,000	164,000	280,000	263,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	161,000	141,000	580,000	580,000	High Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	119,000	91,000	531,000	531,000	High Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	76,000	28,000	530,000	530,000	High Flood (S)	700,000
• Kotri	875,000	981,000	14-8-1956	27,000	NIL	409,000	404,000	Med Flood (R)	650,000
River Kabul									
• Warsak	540,000				20,000		34,000	Normal	200,000
• Nowshera		450,000	29-07-2010		26,000		80,000	Med Flood (F)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		11,000		15,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		3,000		19,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		19,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	17,000	40,000	28,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	31,000	12,000	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	44,000	9,000	52,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	9,000	2,000	38,000	30,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	21,000	NIL	28,000	8,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	29,000	13,000	42,000	29,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	44,000	34,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		20,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	35,000	7,000	36,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	NIL	19,000	3,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	20,000	8,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	8,000	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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1550.00	1550.00	1550.00	5.827	5.882	5.827	100 %
Chashma	649.00	638.15	638.15	641.20	644.30	0.278	0.044	0.108	38.85 %
Mangla	1242.00	1050.00	1242.00	1198.05	1186.80	7.356	4.211	3.550	48.26 %
Total Live Storage						13.461	10.137	9.485	70.46 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	24.4 °C	28.4 °C	+ 4.0 °C
Minimum	13.3 °C	12.4 °C	- 0.9 °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"