



**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  
FRIDAY SEPTEMBER 02, 2022**

**Rivers Hydrological Situation:**

River high flows are gradually receding. At present, **River Indus** is flowing in “**High Flood**” in **Guddu-Sukkur Reaches** and in “**Medium Flood**” at **Taunsa & Kotri**. **Normal Flow Conditions** prevail upstream **Chashma** on **Indus**. Flood flows in **River Kabul** (a tributary of River Indus) at **Nowshera** have receded considerably where it is flowing in “**Low Flood**” at the time of reporting today.

2. Other main Rivers of Indus River System i.e Jhelum, Chenab, Ravi & Sutlej continues to flow with Normal discharges. For main 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 **28<sup>th</sup> August 2022**. Water level in **Mangla Dam** at present is at an **El: 1187.45 feet** against its **MCL: 1242 feet (51.24 % storage still left)**, whereas **Chashma Reservoir** is at an Elevation of **648.10 feet**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.646 MAF** (i.e. **71.646 % 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 and for the overall protection of river flood infrastructure down the line which remained in heavy pressure.

**Prevalent Meteorological Situation and Next 24 hours Weather & Rainfall Forecast:**

4. **Weak Seasonal Low** continues to prevail over Northeastern Balochistan and adjoining areas while **Weak Moist currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 3000 feet. For the ensuing 24 hours, FFD, Lahore has predicted mainly dry weather over most parts of the country, however has also predicted isolated thunderstorm/rain over upper catchments of all the Major Rivers of Indus River System. No significant rainfall events has been reported for the past 24 hours except for Khyber Pakhtunkhwa (Daggar=19 mm).

**Weather Outlook & Flood Forecast (3<sup>rd</sup> to 9<sup>th</sup> September 2022):**


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

**Continued Precautionary Measures By Concerned Organizations:**

6. All concerned organizations including field formations of **Irrigation Departments Punjab and 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:**

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

**U.O. No.FC-I (31)/2022, Dated 02-09-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions September 02, 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
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	117,000	157,000	162,000	154,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	124,000	117,000	194,000	187,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	140,000	136,000	124,000	104,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	158,000	138,000	417,000	417,000	Med Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	129,000	99,000	558,000	558,000	High Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	84,000	34,000	532,000	532,000	High Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	25,000	NIL	447,000	440,000	Med Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				18,000		34,000	Normal	200,000
• Nowshera		450,000	29-07-2010		19,000		71,000	Low Flood (F)	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		10,000		14,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		2,000		17,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		17,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	15,000	37,000	28,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	31,000	12,000	6,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	40,000	5,000	52,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	9,000	2,000	34,000	26,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	17,000	NIL	22,000	2,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	29,000	13,000	40,000	25,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	38,000	26,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		3,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		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	18,000	2,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	19,000	7,000	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	1548.55	1550.00	5.827	5.799	5.827	100 %
Chashma	649.00	638.15	638.15	638.15	648.10	0.278	0.000	0.232	83.45 %
Mangla	1242.00	1050.00	1242.00	1197.35	1187.45	7.356	4.169	3.587	48.76 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>9.968</b>	<b>9.646</b>	<b>71.66 %</b>

## C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	23.6 °C	28.8 °C	+ 5.2 °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 &amp; NR stands for "Not Received"