



**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 09, 2022**

**Rivers Hydrological Situation:**

Flood Flows in **River Indus** has receded considerably and at present it is flowing in “**Normal Flow Conditions**” in all its control structures upstream Sukkur (**Tarbela, Kalabagh, Chashma, Taunsa & Guddu**). It is flowing in “**High Flood**” at **Kotri Barrage** and in “**Low Flood**” at **Sukkur Barrage**. All other main Rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej) are discharging normal flows. Main rivers inflows/outflows at important control structures at 0600 hours today may be seen at **Annexure-I**.

**Reservoirs Storage Position:**

2. **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level of 1550.00 feet** since **August 28, 2022**. At present, water level in **Mangla Dam** is **1191.30 feet** against its **MCL: 1242 feet (48.26 % storage still left)**. **Chashma Reservoir** is also being maintained at **648.60 feet (against MCL: 649.00 feet)** since **2<sup>nd</sup> September 2022**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.891 MAF (i.e. 73.48 % of 13.461 MAF)**. WAPDA Authorities and field formations of Sindh Irrigation Department are continuing with their strict vigilance in the reservoir/ barrage operations for continued effective river flood management.

**Prevalent Meteorological Situation (Source: FFD, Lahore):**

3. Trough of **Westerly Wave** earlier over Northern parts of Iran today lies over Northern parts of Afghanistan with **Seasonal Low** lies over Northwestern Balochistan. At present, **Moist currents** from Bay of Bengal are penetrating into upper parts of Pakistan upto 4000 feet.

**Next 24 hours Weather & Rainfall Forecast:**

4. For the ensuing 24 hours, FFD Lahore has predicated **Scattered Thunderstorm/Rain of Moderate Intensity** over **Islamabad, Punjab (Rawalpindi & Gujranwala Divisions)** and **Khyber Pakhtunkhwa (Peshawar Division)** including upper catchments of all Major Rivers of Indus River system.

5. Further to above, **Isolated Thunderstorm/Rain of Light to Moderate Intensity is expected** over **Sargodha, Lahore & D.G Khan Divisions of Punjab, Kohat, Bannu, D.I. Khan Divisions of Khyber Pakhtunkhwa** and **Southeastern Sindh** while Dry Weather over rest of the country. No significant rainfall event has been reported by FFD, Lahore during the past 24 hours except for Punjab (Lahore =38 mm) and Khyber Pakhtunkhwa (Mohmand Dam=35 mm & Nowshera=18 mm).

**Weather Outlook & Flood Forecast from 10<sup>th</sup> to 16<sup>th</sup> September 2022:**

6. A **Fresh Wet Spell of Light to Moderate Intensity** is likely to start over the upper catchments of all Major Rivers of Indus River System from **10<sup>th</sup> to 14<sup>th</sup> September 2022**. **River Indus** is likely to remain in “**High Flood**” at **Kotri Barrage** (Source: FFD, Lahore Bulletin No. C-087/22).

**Continued Precautionary Measures By Concerned Organizations:**


7. 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.

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

9. 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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46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
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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 09-09-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions September 09, 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	120,000	161,000	159,000	152,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	185,000	178,000	166,000	158,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	164,000	222,000	204,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	140,000	202,000	185,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	122,000	91,000	168,000	163,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	66,000	21,000	206,000	206,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	30,000	NIL	604,000	584,000	High Flood (S)	650,000
<b>River Kabul</b>									
• Warsak	540,000				17,000		22,000	Normal	200,000
• Nowshera		450,000	29-07-2010		24,000		43,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		9,000		9,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		3,000		11,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		11,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	14,000	18,000	24,000	13,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	37,000	16,000	4,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	63,000	34,000	42,000	12,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	31,000	24,000	11,000	4,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	41,000	19,000	10,000	NIL	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	33,000	16,000	37,000	22,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	10,000	NIL	23,000	9,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		5,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	30,000	1,000	34,000	9,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	14,000	NIL	25,000	7,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	14,000	1,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	2,000	1,000	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	1532.35	1550.00	5.827	4.891	5.827	100 %
Chashma	649.00	638.15	646.30	645.60	648.60	0.278	0.142	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1192.55	1191.30	7.356	3.881	3.806	51.74 %
Total Live Storage						13.461	8.941	9.891	73.48 %

## C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	33.6 °C	31.3 °C	- 2.3 °C
Minimum	16.6 °C	11.4 °C	- 5.2 °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"