



**Government of Pakistan  
Ministry of Water Resources  
Office of Chief Engineering Advisor/  
Chairman, Federal Flood Commission**

6-Attaturk Avenue, G-5/1, Islamabad  
Fax No. 051-9244621 & [www.ffc.gov.pk](http://www.ffc.gov.pk)

**FFC's  
DAILY WEATHER & FLOOD SITUATION REPORT  
TUESDAY SEPTEMBER 06, 2022**

**Rivers Hydrological Situation:**

**River Indus** continues to flow in “**High Flood**” at **Kotri** (the last control structure on River Indus before Arabian Sea) while flood flows in **Indus upstream Kotri** had receded considerably. It is flowing in “**Medium Flood**” at **Sukkur** and in “**Low Flood**” at **Guddu** with “**Normal Flows**” at rest of its control structures (**Tarbela, Kalabagh, Chashma & Taunsa**). Other main Rivers of Indus River System i.e Jhelum, Chenab, Ravi & Sutlej are flowing with Normal Flows. Main rivers inflows/outflows at important control structures at 0600 hours today, may be seen at **Annexure-I**.

**Reservoirs Storage Position:**

2. Since August 28, 2022 **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level (MCL: 1550.00 feet)**. Water level in **Mangla Dam** is **1190.05 feet** against its **MCL: 1242 feet (49.28 % storage still left)**. Also **Chashma Reservoir** is 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 **9.816 MAF** (i.e. **72.92 % of 13.461 MAF**). WAPDA Authorities both at Tarbela & Chashma and field formations of Sindh Irrigation Departments are continuing with their strict vigilance in the reservoir/ barrage operations for effective river flood management.

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

3. Trough of **Westerly Wave** earlier over Northern parts of Pakistan today lies over Kashmir and adjoining areas with **Seasonal Low** lies over Northwestern Balochistan and adjoining areas. At present, **Light Moist Currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 3000 feet.

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

4. FFD, Lahore has predicted isolated thunderstorm/rain of **Moderate Intensity** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & Faisalabad Divisions)** and **Khyber Pakhtunkhwa** including upper catchments of all **Major Rivers** of Indus River System during the next 24 hours. Significant rainfall events reported by FFD, Lahore during past 24 hours may be seen at **Annexure-II**.

**Weather Outlook & Flood Forecast (7<sup>th</sup> to 13<sup>th</sup> September 2022):**


5. A fresh **Wet Spell** of **Moderate Intensity** is likely to start over the upper catchments of all the Major Rivers of Indus River System from **10<sup>th</sup> September 2022**. The present **High Level Flooding in River Indus at Kotri** is likely to continue. (Ref: FFD, Lahore, Bulletin No. C-084/22).

**Continued Precautionary Measures By Concerned Organizations:**

6. 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.

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

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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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 06-09-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions September 06, 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	95,000	159,000	154,000	151,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	174,000	167,000	162,000	154,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	164,000	220,000	202,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	155,000	136,000	223,000	207,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	116,000	85,000	298,000	298,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	87,000	35,000	419,000	419,000	Med Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	24,000	NIL	604,000	584,000	High Flood (S)	650,000
<b>River Kabul</b>									
• Warsak	540,000				16,000		24,000	Normal	200,000
• Nowshera		450,000	29-07-2010		12,000		52,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		7,000		13,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		2,000		16,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		19,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	12,000	34,000	30,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	34,000	12,000	7,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	29,000	5,000	63,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	8,000	NIL	43,000	36,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	18,000	NIL	39,000	19,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	20,000	4,000	30,000	14,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	14,000	NIL	24,000	10,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		3,000		9,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		16,000		16,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	29,000	NIL	39,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	2,000	19,000	2,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	15,000	3,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	5,000	4,000	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	1538.62	1550.00	5.827	5.235	5.827	100 %
Chashma	649.00	638.15	640.50	644.60	648.60	0.278	0.115	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1194.10	1190.05	7.356	3.974	3.731	50.72 %
Total Live Storage						13.461	9.324	9.816	72.92 %

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + /- )
Maximum	32.4 °C	31.3 °C	- 1.1 °C
Minimum	11.4 °C	13.3 °C	+ 1.9 °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"

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**Significant Rainfall Events during the Past 24 Hours**

<b>Sr. No.</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
<b>A</b>	<b>Punjab</b>	
1.	Okara	34
2.	Mangla	28
3.	Faisalabad	24
4.	Gujranwala	23
5.	GS Wala & Kallar	13 each
6.	T.T. Singh	15
7.	DG Khan	12
8.	Jhelum	11
9.	Sialkot	06
<b>B</b>	<b>Khyber Pakhtunkhwa</b>	
10.	Dir	22
11.	Shinkiari	18
12.	Risalpur	14
13.	Kakul	12
14.	Takht Bai	10
15.	Malam Jabba	09
16.	Saidu Sharif	07
<b>C</b>	<b>AJ&amp;K</b>	
17.	Kotli	28
18.	Palandri	19
19.	Bandi Abbaspur	06
<b>Source: FFD, Lahore (Phone No. 042 99200139)</b>		