



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
MONDAY SEPTEMBER 05, 2022

Rivers Hydrological Situation:

Flood Flows in **River Indus** are receding gradually. At present it is flowing in “**High Flood**” at **Kotri** (the last control structure on River Indus before Arabian Sea) and in “**Medium Flood**” in **Guddu-Sukkur Reach**. It is discharging **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 continues to flow with Normal Flow Conditions. **Annexure-I** depicts the main rivers inflows/outflows at important control structures, at 0600 hours today.

Reservoirs Storage Position:

2. **Tarbela Reservoir** Management authorities are maintaining it at its **Maximum Conservation Level (MCL: 1550.00 feet)** since **28th August 2022**. At present water level in **Mangla Dam** is **1189.20 feet** against its **MCL: 1242 feet (49.92 % storage still left)** whereas water level in **Chashma Reservoir** is **648.60 feet** (Just 0.40 feet below its **MCL: 649.00 feet**). Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.769 MAF** (i.e. **72.57 % of 13.461 MAF**). WAPDA Authorities both at Tarbela & Chashma and field formations of Sindh Irrigation Departments are continuing with their extra vigilance in the reservoir/ barrage operations for effective flood routing.

Prevalent Meteorological Situation (Source: FFD, Lahore):

3. Trough of **Westerly Wave** continues to prevail over Northern parts of Pakistan with **Seasonal Low** lies over Northeastern Balochistan and adjoining areas. At present, **Moderate Moist Currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 5000 feet.

Next 24 hours Weather, Rainfall & Flood Forecast:

4. For the ensuing 24 hours, FFD, Lahore has predicted **scattered thunderstorm/rain of Moderate Intensity** with **Isolated Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & Faisalabad Divisions)** and **Khyber Pakhtunkhwa** including upper catchments of all Major Rivers of Indus River System. As a consequence, **Low to Medium Level flooding** is expected in the **Nullahs of Rivers Ravi & Chenab** including **River Kabul** & its Tributaries during **next 24 hours**. Significant rainfall events reported by FFD, Lahore during past 24 hours may be seen at **Annexure-II**.

Weather Outlook & Flood Forecast (6th to 12th 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 **10th September 2022**. **High Level Flooding** is likely to continue in **River Indus** at **Kotri** (Ref: FFD, Lahore, Bulletin No. C-083/22).

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.

Specific Directions for Dam/Reservoir/Barrages Management Organizations:

7. 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.
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 05-09-2022**

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 05, 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	90,000	158,000	161,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	181,000	174,000	181,000	173,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	164,000	239,000	221,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	155,000	136,000	215,000	201,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	125,000	95,000	390,000	390,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	93,000	40,000	499,000	499,000	Med Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	24,000	NIL	599,000	584,000	High Flood (R)	650,000
River Kabul									
• Warsak	540,000				16,000		26,000	Normal	200,000
• Nowshera		450,000	29-07-2010		12,000		51,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		13,000	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		5,000		17,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	17,000	34,000	35,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	30,000	8,000	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	33,000	5,000	69,000	38,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	8,000	NIL	47,000	39,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	18,000	NIL	30,000	10,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	16,000	NIL	30,000	14,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	15,000	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		15,000		16,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	28,000	NIL	35,000	9,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	1,000	19,000	2,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	16,000	3,000	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	1541.30	1550.00	5.827	5.385	5.827	100 %
Chashma	649.00	638.15	640.00	644.30	648.60	0.278	0.108	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1194.95	1189.20	7.356	4.025	3.684	50.08 %
Total Live Storage						13.461	9.518	9.769	72.57 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	31.3 °C	32.6 °C	+ 1.3 °C
Minimum	10.5 °C	13.4 °C	+ 2.9 °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

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Islamabad	51
2.	Daultanagar	49
3.	Sialkot	47
4.	Kallar	39
5.	Gujrat	37
6.	Attock	33
7.	Mangla	34
8.	Kamra & Haraman	18 each
9.	Rohtas & Jhelum	12 each
10.	Murree & Marala	06 each
B	Khyber Pakhtunkhwa	
11.	Kakul	92
12.	Daggar	43
13.	Buner	34
14.	Phulra	29
15.	Pashat-Bajaur	17
16.	Tirah-Khyber	15
17.	Tarbela	13
18.	Saidu Sharif	12
19.	Risalpur	09
20.	Peshawar & Takht Bai	07 each
21.	Malam Jabba & Mardan	06 each
C	AJ&K	
22.	Domel	61
23.	Rawalakot	46
24.	Kotli	40
25.	Muzaffarabad & Bandi Abbaspur	36 each
26.	Chakothi	07
27.	Garhi Dopatta	05
Source: FFD, Lahore (Phone No. 042 99200139)		