



**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
SATURDAY SEPTEMBER 10, 2022**

Rivers Hydrological Situation:

River Indus continues to flow in “**High Flood**” at **Kotri Barrage** (the last control structure on River Indus before Arabian Sea) whereas it is flowing with “**Normal Flows**” at rest of its control structures (**Tarbela, Kalabagh, Chashma, Taunsa, Guddu & Sukkur**) alongwith other main Rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej). 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 **1191.40 feet** against its **MCL: 1242 feet (48.18 % storage still left)**. **Chashma Reservoir** is also being maintained at **648.60 feet (against MCL: 649.00 feet)** since **2nd September 2022**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.897 MAF (i.e. 73.52 % 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.

Manchar Lake Update:

3. As reported by Irrigation Department, Government of Sindh, **Manchar Lake** level has risen to **122.50 feet (against 122.20 feet yesterday's level)**. This rising is due to the fact that now water from the cities is diverted into Main Nara Valley (MNV) Drain which ultimately is coming/ discharging into Manchar Lake. Earlier the flood water was spreading in the plains & cities.

Prevalent Meteorological Situation (Source: FFD, Lahore):

4. Trough of **Westerly Wave** continues to prevail over Northern parts of Afghanistan with **weak Seasonal Low** lies over Northwestern Balochistan. At present, **Weak Moist currents** from Bay of Bengal are penetrating upper parts of the Pakistan up to 4000 feet.

Next 24 hours Weather & Rainfall Forecast:

5. 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 during the next 24 hours.


6. Further to above, **Isolated Thunderstorm/Rain** of **Light to Moderate Intensity** is expected over **Punjab (Sargodha, Lahore & D.G Khan Divisions), Southeastern Sindh** and **Khyber Pakhtunkhwa (Kohat, Bannu & D.I. Khan Divisions)** while mainly Dry Weather over rest of the country. Significant rainfall events for the past 24 hours may be seen at **Annexure-II**.

Weather Outlook & Flood Forecast from 11th to 17th September 2022:

7. 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 **11th to 14th September 2022**. **River Indus** is likely to remain in “**High Flood**” at **Kotri Barrage** (Source: FFD, Lahore Bulletin No. C-088/22).

Continued Precautionary Measures By Concerned Organizations:

8. 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.
9. **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.**
10. 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.
11. 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.
12. 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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35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
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42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
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 10-09-2022

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 10, 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	130,000	138,000	157,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	179,000	172,000	153,000	145,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	185,000	164,000	214,000	196,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	140,000	181,000	164,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	133,000	102,000	165,000	159,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	75,000	24,000	185,000	185,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	32,000	3,000	626,000	600,000	High Flood (R)	650,000
River Kabul									
• Warsak	540,000				19,000		20,000	Normal	200,000
• Nowshera		450,000	29-07-2010		18,000		41,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		8,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		2,000		11,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	15,000	18,000	18,000	14,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	23,000	5,000	13,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	48,000	13,000	46,000	15,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	31,000	24,000	15,000	7,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	45,000	23,000	22,000	2,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	33,000	16,000	31,000	15,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	10,000	NIL	23,000	9,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		12,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		29,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	39,000	9,000	30,000	5,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	14,000	NIL	25,000	8,000	Normal	90,000
River Sutlej									
• 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	1531.50	1550.00	5.827	4.845	5.827	100 %
Chashma	649.00	638.15	647.50	646.40	648.60	0.278	0.166	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1192.25	1191.40	7.356	3.863	3.812	51.82 %
Total Live Storage						13.461	8.874	9.897	73.52 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	31.0 °C	31.4 °C	+ 0.4 °C
Minimum	16.3 °C	19.4 °C	+ 3.1 °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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SATURDAY SEPTEMBER 10, 2022
Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	36
B	Sindh	
2.	Badin	07
C	Khyber Pakhtunkhwa	
3.	Balakot	18
4.	Pashat-Bajaur	16
5.	Malam Jabba	13
6.	Buner	12
7.	Mamad Gut	05
D	AJ&K	
8.	Kotli	36
9.	Bandi Abbaspur	30
10.	Rawalakot	10
11.	Hajira & Garhi Dopatta	08 (each)
Source: FFD, Lahore (Phone No. 042 99200139)		