



**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 03, 2022**

Rivers Hydrological Situation:

At present, **River Indus** is flowing in “**High Flood**” in **Guddu-Sukkur-Kotri Reaches** and in “**Low Flood**” at **Taunsa**. **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 reporting time today.

2. Other main Rivers of Indus River System i.e Jhelum, Chenab, Ravi & Sutlej continues to flow with Normal discharges. For 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 **28th August 2022**, whereas **Mangla Dam** is at an **El: 1188.00 feet** against its **MCL: 1242 feet (50.83 % storage still left)**. Water Level in **Chashma Reservoir** is at an Elevation of **648.60 feet** (Just 0.40 feet below its **MCL: 649.00 feet**). Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.702 MAF** (i.e. **72.07 % 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.

Prevalent Meteorological Situation:

4. A fresh trough of **Westerly Wave** lies over Northeastern Afghanistan and adjoining areas with **Weak Seasonal Low** over Northeastern Balochistan and adjoining areas. At present, **Moderate Moist Currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 3000 feet.

Next 24 hours Weather & Rainfall Forecast:

5. For the ensuing 24 hours, FFD Lahore has predicted **scattered thunderstorm/rain of Moderate Intensity** with **One or Two Heavy Falls** over **Islamabad, Punjab (Rawalpindi & Gujranwala Divisions)** and **Khyber Pakhtunkhwa (Peshawar Division)** including upper catchments of all Major Rivers of Indus River system. For the same period, isolated thunderstorm/rain may also occur over Lahore Division of Punjab. No significant rainfall events has been reported for the past 24 hours except for AJ&K (Hajira=16 mm & Rawalakot=15 mm).

Next 48 hours Weather & Rainfall Forecast:

6. **Scattered thunderstorm/rain of Moderate Intensity** with **Isolated Heavy Falls** has been predicted by FFD, Lahore over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & Faisalabad Divisions)** and **Khyber Pakhtunkhwa** including upper catchments of all Major Rivers of Indus River System.

Weather Outlook & Flood Forecast (4th to 10th September 2022):

7. According to FFD, Lahore, **Scattered thunderstorm/rain** with **Isolated Heavy Falls** is expected over the upper catchments of all the Major Rivers from **4th to 6th September 2022**. **High Level Flooding** is likely to continue in downstream reaches of **River Indus** from **4th to 10th September 2022**.

Continued Precautionary Measures By Concerned Organizations:

8. 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:

9. 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.

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

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
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 28. Commissioner, Rawalpindi.
 29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
 30. Secretary, Irrigation Department, Government of Sindh, Karachi.
 31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
 32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
 33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
 34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
 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.
 39. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
 40. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
 41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
 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 03-09-2022**

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 03, 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	106,000	158,000	169,000	156,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	161,000	154,000	191,000	183,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	161,000	150,000	225,000	207,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	158,000	138,000	296,000	296,000	Low Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	139,000	109,000	553,000	553,000	High Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	90,000	36,000	560,000	560,000	High Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	24,000	NIL	514,000	503,000	High Flood (R)	650,000
River Kabul									
• Warsak	540,000				14,000		31,000	Normal	200,000
• Nowshera		450,000	29-07-2010		19,000		73,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		10,000		13,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		2,000		14,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		15,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	17,000	34,000	25,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	31,000	12,000	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	36,000	5,000	47,000	17,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	7,000	NIL	32,000	24,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	15,000	NIL	30,000	10,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	25,000	9,000	38,000	23,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	12,000	NIL	28,000	15,000	Normal	450,000
River Ravi									
• 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	33,000	4,000	35,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	NIL	20,000	3,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	18,000	6,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	8,000	6,000	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	1546.34	1550.00	5.827	5.673	5.827	100 %
Chashma	649.00	638.15	639.00	640.50	648.60	0.278	0.032	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1196.60	1188.00	7.356	4.132	3.617	49.17 %
Total Live Storage						13.461	9.839	9.702	72.07 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ /-)
Maximum	25.2 °C	30.4 °C	+ 5.2 °C
Minimum	9.4 °C	12.2 °C	+ 2.8 °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"