



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

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FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SATURDAY, JULY 29, 2023

Major reservoirs in the country (Tarbela & Mangla) are approaching fast their maximum conservation levels. Although wet spell is decreasing, however, PMD has forecasted more rains in the upper catchments of major rivers, as well as in the hill torrents regions of the country during the next 24 hours. Flood peaks, presently propagating in the Indus River System, may become violent due to contribution of likely torrential flash flooding. Owing to climate change, localized rainfall extremes causing urban flooding have also become recurrent as experienced during the ongoing monsoon season.

2. **Tarbela Reservoir** has attained water level of **1533.65 feet** i.e. **16.35 feet** below against its Maximum Conservation Level (MCL) of **1550 feet** whereas **Mangla Reservoir** is at an elevation of **1225.20 feet (16.80 feet below its MCL: 1242.00 feet)**. In view of higher water levels, Tarbela Dam Management and Flood Mitigation Committee (FMC) of Mangla Dam are advised to remain vigilant and ensure filling of reservoirs as per approved SOPs and dam safety guidelines.

3. Presently, **River Indus** is experiencing **Medium Flood** in **Taunsa-Guddu reach** whereas it is in **Low Flood** situation at four locations (**Tarbela-Kalabagh-Chashma & Sukkur**). **River Sutlej** at **Head Suleimanki** is also flowing in **Medium Flood** with falling trend. Furthermore, **River Chenab** at **Marala**, **Ravi** in **Balloki-Sidhnai Reach** and **Kabul** at **Nowshera** are flowing in **Low Flood**. **River Jhelum** is discharging **Normal flows**. **Annexure-I** demonstrates overall river flows situation.

4. According to FFD, Lahore, yesterday's trough of **Westerly Wave** over **Northern parts** of Pakistan today persists. **Seasonal Low** today lies over **North-eastern Balochistan**. Moderate moist currents from **Arabian Sea** are penetrating into upper parts of the country upto 5,000 feet.

5. For the next 24 hours, FFD, Lahore has forecasted **Scattered to Widespread Wind Thunderstorm/ Rain of Moderate Intensity** with **Isolated Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & Bahawalpur Divisions), upper Sindh, Khyber Pakhtunkhwa and Balochistan (Zhub, Loralai, Kalat, Sibbi, Makran & Nasirabad Divisions)** including the upper catchments of all the major rivers.

6. Heavy rainfall has been experienced in **Palandri = 104 mm** and **Islamabad = 98 mm** during the past 24 hours. Details of significant/ appreciable rainfall events occurred during the last 24 hours have been indicated at **Annexure-II**.

7. **Flood Forecast-Next 24-72 Hours:**

As per PMD, Wet spell is likely to decrease during the next 48 hours. However, the prevailing weather situation may result into **Moderate Flash flooding** in tributaries of **River Kabul & Hill Torrents of D.G. Khan Division** during the next **24 hours**. Due to combining effect of downstream discharges from Taunsa and Panjnad, **River Indus at Guddu and Sukkur** may attain **High Flood Level** on **30th July** and **31st July 2023** respectively.

8. All concerned organizations especially the dam management organizations (Tarbela on Indus, Mangla on Jhelum) are advised to remain **Alert & Vigilant**, take prompt actions on warnings issued, avoid synchronization of flows from Indus & Panjnad at Guddu to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.

9. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) through FFD, Lahore and is keeping all concerned organizations fully cognizant of the situation.

(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.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Secretary, Irrigation Department, Government of the Punjab, Lahore.
27. Secretary, Irrigation Department, Government of Sindh, Karachi
28. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
29. Secretary, Irrigation Department, Government of Balochistan, Quetta.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
32. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
33. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
34. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
35. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
36. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
37. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
38. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
39. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
40. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
41. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
42. Chief Commissioner, ICT, Islamabad.
43. Chairman, Capital Development Authority, Islamabad.
44. Commissioner, Rawalpindi.
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)/2023, dated 29-07-2023

Rivers and Reservoir Positions July 29, 2023 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	305,000	158,000	269,000	256,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	220,000	217,000	323,000	315,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	316,000	308,000	342,000	338,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	269,000	264,000	397,000	397,000	Med Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	306,000	283,000	411,000	397,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	280,000	251,000	360,000	323,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	102,000	80,000	123,000	91,000	Normal	650,000
River Kabul									
• Warsak	540,000				34,000		31,000	Normal	200,000
• Nowshera					68,000		73,000	Low Flood (R)	200,000
River Swat									
• Chakdara Bridge					20,000		21,000	Normal	150,000
• Munda(H. Works)					18,000		22,000	Normal	150,000
• Charsadda Road	150,000				14,000		20,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	40,000	10,000	67,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	11,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	119,000	104,000	122,000	105,000	Low Flood (F)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	195,000	189,000	100,000	93,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	210,000	191,000	93,000	83,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	99,000	91,000	87,000	78,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	101,000	99,000	106,000	97,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		19,000		47,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		8,000		38,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	33,000	16,000	65,000	52,000	Low Flood (R)	135,000
• Sidhnaï	150,000	330,210	02-10-1988	24,000	23,000	41,000	32,000	Low Flood (F)	90,000
River Sutlej									
• G.S. Wala						Gauge 19.20	58,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	12,000	5,000	83,000	83,000	Med Flood (F)	175,000
• Islam	332,000	492,581	11-10-1955	10,000	10,000	40,000	40,000	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1507.36	1524.00	1533.65	5.809	4.393	4.884	84.08 %
Chashma	649.00	638.15	640.00	639.00	638.50	0.278	0.010	0.004	01.44 %
Mangla	1242.00	1050.00	1186.15	1146.65	1225.20	7.356	1.648	6.064	82.44 %
Total Live Storage						13.443	6.051	10.952	81.47 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	31.7 °C	25.1 °C	- 6.6 °C
Minimum	17.8 °C	15.0 °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 freeboard

"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: (applied on downstream discharge/Outflow)

* (R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours.

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A Punjab		
1.	Islamabad	(Saidpur-98, Golra-79, Zeropoint-75, Shamsabad=72, Bokra-62, Chaklala Airbase=54, New Airport=07)
2.	Gujranwala	(Cantt-64, City-63)
3.	Haraman	62
4.	Kallar	59
5.	Sialkot	(Cantt-49, Airport-43)
6.	Lahore	(Shahi Qilla=33. Luckshami=10, Shahdara=09),
7.	Mandibahauddin	28
8.	Murree	23
9.	Gujrat	22
10.	Kamra (Airbase)	21
11.	Hafizabad	17
12.	D.G khan (Zain Sanghar)	14
13.	Narowal	12
14.	Attock	10
15.	Sargodha (Airbase)	08
16.	Noorpur Thal & Daulatnagar	05(each)
B Khyber Pakhtunkhwa		
17.	Tarbela	51
18.	Saidu Sharif	42
19.	Oghi	33
20.	Daggar & Phulra	31(each)
21.	Balakot	28
22.	Dir	26
23.	Malam Jabba	23
24.	Shinkiari	20
25.	Kakul	17
26.	Besham, Takht Bai & Mardan	15(each)
27.	Risalpur, Buner & Kalam	11(each)
28.	Parachinar	10
29.	Cherat	08
30.	Bosak Bidge	05
C Sindh		
31.	Larkana	52
32.	Moin-Jo-Daro	36
33.	Padidan	13
D Balochistan		
34.	Bar khan	36
35.	Dalbandin	10
E AJ&K		
34.	Palandri	104
35.	Domel & Kotli	56 (each)
36.	Muzaffarabad	(Airport-45. City-28)
37.	Rawalakot	19
38.	Chattar Kallas	14
39.	Garhi Dopatta	10
F Gilgit Baltistan		
40.	Babusar	08
41.	Bagrote	06

Source: FFD, Lahore: 042-99200139