



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
FRIDAY, JULY 21, 2023

Yesterday's high flows in **River Chenab** at **Marala, Khanki, Qadirabad** and **River Ravi** at **Jassar** have receded and now they are flowing in Normal Flow Condition, whereas **River Indus** is experiencing **Low Flood (rising trend)** in its **Tarbela-Kalabagh** and **Kalabagh-Chashma** reaches. Similarly **River Kabul** (a tributary of river Indus) is in **Low Flood (rising trend)** both at **Warsak & Nowshera** respectively. Rest of the major Rivers are flowing with '**No Flood Condition**'. Inflows/ outflows of major rivers at specified locations including country's major reservoirs storage position at 0600 hours today is given in **Annexure-I**. A healthy Combined Live Storage of **9.490 MAF (70.59 % of maximum value of 13.443 MAF)** is available at present.

2. According to FFD, Lahore, **Monsoon Low** over Northwest Bay of Bengal (India) has remained stationary since the last 24 hours. This is resulting into penetration of **Moderate Monsoon current** from the Bay of Bengal into most parts of Pakistan except for Balochistan. It is likely to get intensify further.

3. As regards other weather systems, yesterday's trough of Westerly Wave has moved away Eastwards, but another fresh trough prevails over Northern parts of Afghanistan. Seasonal Low although weak, continues to prevail over Balochistan.

4. **For the ensuing 24 hours**, FFD, Lahore has predicted **Scattered to Widespread Wind Thunderstorm/Rain** of **Moderate Intensity** with **Isolated Heavy Falls** and **Very Heavy Falls** at **one/two places** over **Islamabad, Punjab, Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I Khan Divisions)** and **Balochistan (Zhob, Loralai, Sibbi, Nasirabad & Kalat Divisions)** including the upper catchments of all the major rivers. For the same time period, **Isolated Wind Thunderstorm/Rain** may also occur over **Sindh**. Current Monsoon activity is likely to intensify over the country during the next 48 hours.

5. In view of prevailing meteorological conditions, **Medium to High level flood** is expected in **Rivers Chenab & Jhelum (upstream Mangla)** including **Nullahs of Rivers Ravi & Chenab** during the next **72 hours**. During the preceding 24 hours **appreciable rainfall** events have been reported in **Punjab, Sindh, Khyber Pakhtunkhwa** and **AJ&K**. **Annexure-II** is referred for details.


6. **For the week ahead (22nd to 28th July 2023)**, FFD, Lahore has predicted as under:

Scattered to Widespread Wind Thunderstorm/Rain of **Moderate Intensity** with **Heavy Falls** at **isolated places** and **Very Heavy Falls** at **one/ two places** are expected over the upper catchments of all the major rivers of IRS, which may result into:

- **Medium to High Level Flood** in **River Chenab**.
- **Sharp peaks** of **Medium to High Level Flood** in **River Jhelum (upstream Mangla)**.
- **Medium Level Flood** in the **Nullahs of Rivers Ravi & Chenab**.
- **Medium Level Flood** in **Hill Torrents** of **D.G. Khan Division**.

7. All concerned organizations especially Flood Mitigation Committee (FMC) at Mangla, PDMA Punjab, SDMA, PID Punjab and relevant district administration, are advised to remain **Alert & Vigilant**, take prompt actions on warnings issued, to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.

8. Round-the-Clock monitoring of the current weather situation is being ensured by Pakistan Meteorological Department (PMD) through FFD, Lahore, being the Apex Flood Forecasting Agency at the National level, and is keeping all fully informed.


(Ahmed Kama)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.

Distribution:

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. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
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)/2023, dated 21-07-2023

Rivers and Reservoir Positions July 21, 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	191,000	164,000	292,000	294,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	156,000	148,000	280,000	272,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	222,000	203,000	302,000	299,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	183,000	159,000	201,000	183,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	166,000	129,000	182,000	152,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	174,000	136,000	142,000	89,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	83,000	50,000	73,000	34,000	Normal	650,000
River Kabul									
• Warsak	540,000				30,000		41,000	Low Flood (R)	200,000
• Nowshera					49,000		62,000	Low Flood (R)	200,000
River Swat									
• Chakdara Bridge					11,000		13,000	Normal	150,000
• Munda(H. Works)					8,000		18,000	Normal	150,000
• Charsadda Road	150,000				11,000		17,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	38,000	13,000	62,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	12,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	94,000	65,000	112,000	94,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	68,000	61,000	105,000	97,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	54,000	32,000	107,000	96,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	32,000	17,000	55,000	44,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	30,000	19,000	31,000	19,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		47,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		17,000		27,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	8,000	58,000	30,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	18,000	9,000	31,000	18,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 17.20	31,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	23,000	16,000	44,000	34,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	12,000	11,000	27,000	26,000	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	1476.86	1499.73	1521.73	5.809	3.179	4.247	73.11 %
Chashma	649.00	638.15	642.00	643.70	645.20	0.278	0.093	0.131	47.12 %
Mangla	1242.00	1050.00	1172.65	1132.25	1211.85	7.356	1.142	5.112	69.49 %
Total Live Storage						13.443	4.414	9.490	70.59 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	38.6 °C	30.7 °C	- 7.9 °C
Minimum	16.4 °C	18.5 °C	2.1 °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 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.	Chakwal	93
2.	Mandibahauddin	80
3.	Sargodha	31
4.	Hafizabad	29
5.	Lahore	28
6.	Bahawalpur	23
7.	Khanewal	11
8.	Shorkot, Jhang & Islamabad	06 each
B	Sindh	
9.	Badin	56
10.	Sakrand	06
C	Khyber Pakhtunkhwa	
11.	Besham	61
12.	Shinkiari	52
13.	Balakot	50
14.	Buner	45
15.	Dir	32
16.	Pattan	23
17.	Pashat-Bajaur	22
18.	Malam Jabba	18
19.	Kakul	11
20.	Oghi	08
D	Gilgit-Baltistan	
21.	Bagrote	06
E	AJ & K	
22.	Domel	58
23.	Muzaffarabad	46
24.	Haraman	21
25.	Garhi Dopatta	14

Source: FFD, Lahore (Phone No. 042 99200139)