



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
WEDNESDAY, JULY 19, 2023

All major Rivers of Indus River System are flowing in Normal Flow Conditions and there is no riverine flood situation at present. Inflows/ outflows of major rivers at specified locations including country's major reservoirs storage position can be glanced through at **Annexure-I**. Combined Live Storage of Tarbela, Chashma & Mangla is **9.135 MAF (67.95%** of maximum live storage of **13.443 MAF**). This was **4.334 MAF** last year on the same date.

2. Owing to **Very heavy rainfall (188 mm)** in the twin cities of Islamabad-Rawalpindi high flood flows were generated in **Lai Nullah**. As a result water level at **Kattarian Bridge (Rawalpindi) 19.00 feet (Alert Level)** and **18.00 feet (Alert Level)** at **Gawalmandi Bridge (Rawalpindi)** at **0800 hours** recorded today morning. The water level has now started receding. Rawalpindi, District Administration and WASA with the help of Rescue-1122 are ensuring all precautionary measures.

3. Yesterday's **Monsoon Low** over East Madhya Pradesh (India) has become insignificant, however, another fresh **Monsoon Low** has developed over Northwestern Bay of Bengal (India). As regards other weather systems: Westerly Wave's trough prevails over Northeastern parts of Afghanistan and adjoining areas with Seasonal Low lies over Northeastern Balochistan. Owing to present meteorological conditions, **Moderate to Strong Moist Currents** from Bay of Bengal are penetrating in to upper parts of Pakistan up to 7000 feet.

4. **For the ensuing 24 hours, foregoing on above meteorological conditions, FFD, Lahore has predicted as under:**

- **Scattered to Widespread Wind Thunderstorm/Rain of Moderate Intensity with Isolated Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore, Faisalabad, Multan, Sahiwal, D.G Khan & Bahawalpur Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I Khan Divisions)** including over upper catchments of all the major rivers of IRS.
- **Very Heavy Rainfall at isolated places over Northern & Northeastern Punjab.**
- **Isolated Wind Thunderstorm/Rain** over **Zhob, Loralai, Sibbi, Nasirabad & Kalat Divisions of Balochistan and Southeastern Sindh.**

As a result, there is a likelihood of:

- **Sharp peaks of Medium to High flood level in River Jhelum (upstream Mangla).**
- **Medium to High level flooding in River Chenab (Marala, Khanki & Qadirabad) including Nullahs of Rivers Ravi & Chenab and Hill Torrents of DG Khan Division.**


5. Current Monsoon activity over upper parts of the country is likely to continue and may increase over Southeastern Sindh during the next 48 hours. For the extended period (**20th July to 26th July 2023**), **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. This may result into sharp peaks of **Medium to High level flood in River Jhelum (upstream Mangla) & in River Chenab including Nullahs of Rivers Ravi & Chenab** during the same period.

6. During the preceding 24 hours **Very Heavy rainfall** has been experienced in **Islamabad** with **Heavy rainfall in Punjab, Khyber Pakhtunkhwa and AJ&K**. Details may be seen at **Annexure-II**.

7. Pakistan Meteorological Department (PMD) through FFD, Lahore, being the Apex Flood Forecasting Agency at the National level, is monitoring the current weather situation on Round-the-Clock basis and keeping all informed as per its SOPs.

Distribution:

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


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

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 19-07-2023

Rivers and Reservoir Positions July 19, 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	148,000	129,000	225,000	147,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	165,000	157,000	208,000	200,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	199,000	187,000	214,000	209,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	201,000	181,000	196,000	178,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	219,000	183,000	185,000	145,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	165,000	129,000	131,000	75,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	50,000	28,000	71,000	28,000	Normal	650,000
River Kabul									
• Warsak	540,000				25,000		39,000	Normal	200,000
• Nowshera					40,000		50,000	Normal	200,000
River Swat									
• Chakdara Bridge					9,000		12,000	Normal	150,000
• Munda(H. Works)					10,000		13,000	Normal	150,000
• Charsadda Road	150,000				11,000		12,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	30,000	14,000	128,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	11,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	54,000	27,000	107,000	78,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	75,000	19,000	70,000	63,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	37,000	15,000	54,000	39,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	57,000	42,000	36,000	22,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	29,000	20,000	33,000	18,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		31,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		16,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	9,000	46,000	23,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	21,000	14,000	28,000	12,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 16.20	22,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	21,000	14,000	34,000	26,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	7,000	7,000	20,000	20,000	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	1464.58	1498.81	1517.87	5.809	3.137	4.048	69.68 %
Chashma	649.00	638.15	645.20	644.80	647.40	0.278	0.120	0.202	72.66 %
Mangla	1242.00	1050.00	1168.30	1130.30	1208.50	7.356	1.077	4.885	66.41 %
Total Live Storage						13.443	4.334	9.135	67.95 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ /-)
Maximum	35.8 °C	36.3 °C	0.5 °C
Minimum	15.2 °C	18.3 °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 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	(Shamsabad=188, Bokra=138, Chaklala (Airbase)=110, Golra=102, Zeropoint=98, New Airport=64 & Saidpur=44)
2.	Sialkot	98
3.	Mangla	91
4.	Jhelum	85
5.	Gujrat	45
6.	Kallar	41
7.	Murree	34
8.	Daulatnagar	31
9.	Mandibahauddin	12
10.	Gujranwala	11
11.	Rohtas	07
12.	Multan	05
B Khyber Pakhtunkhwa		
13.	Balakot	74
14.	Shinkhari & Buner	38 each
15.	Tarbela	10
16.	Kakul	09
C AJ & K		
17.	Kotli	71
18.	Haraman	54
19.	Rawalakot	49
20.	Muzaffarabad	22
21.	Domel	18
22.	Bandi Abbaspur	12

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