



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
TUESDAY, JULY 23, 2024

There is currently no riverine flood situation in the country, as all major rivers of the Indus River System (Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing with “**Normal Discharges**”. Actual river inflows/ outflows, reservoir elevations, live storage and today’s temperature at Skardu may be seen at **Annexure-I**. Today’s combined live storage capacity of Tarbela, Chashma & Mangla reservoirs is **8.104 MAF** (60.84% of Maximum Live Storage Capacity of **13.321 MAF**).

2. With regard to Indian Reservoirs on rivers Sutlej (Bhakra Dam), Beas (Pong Dam) and Ravi (Thein Dam), their present live storage is **37%**, **23%** & **24%** respectively.

3. Yesterday’s **Monsoon Low** over central Chhattisgarh (India) remained stationary, while another active Monsoon trough from the Bay of Bengal (India) is prevailing just south of the Himalayas, affecting the catchments of eastern rivers in India. Further to this, trough of Westerly Wave from the Mediterranean Sea presently lies over Northeastern Afghanistan and adjoining areas of Pakistan besides Seasonal Low positioned over Eastern Balochistan and extending northward. Moderate moist currents both from the Arabian Sea and the Bay of Bengal are penetrating into the upper parts of Pakistan up to 5,000 feet (**Source: FFD, Lahore**).

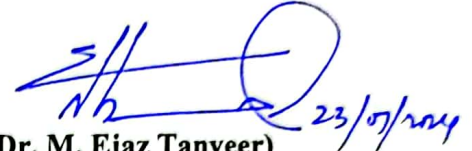
4. For the next 24 hours, FFD Lahore has predicted widespread wind-thunderstorms/rain of **Moderate to Heavy Intensity** with isolated **Very Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Sargodha & Gujranwala Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)**, including the upper catchments of all major rivers of the Indus River System. Scattered thunderstorms/rain of **Moderate Intensity** with isolated **Heavy Falls** are also likely to occur over **Lahore, Faisalabad, Multan, Sahiwal, Bahawalpur & D.G. Khan Divisions of Punjab**, as well as over **Zhob, Sibbi, Kalat & Nasirabad Divisions of Balochistan** besides isolated thunderstorms/rain of **Light to Moderate Intensity** over **Southern Sindh** during the same period.

5. Some good rains have been experienced during the last 24 hours in Punjab. Significant figures on country-wide basis are depicted in **Annexure-II**.

6. Wet spell is likely to continue for the next 48 hours, with **Low to Medium flooding** expected in the Chenab River at Marala (1st Control Structure in Pakistan), Khanki, and Qadirabad Barrages including nullahs of the Ravi and Chenab Rivers during the next 36 hours.

7. July 24th to 30th July 2024 Weather Outlook suggests, moderate to heavy rainfall with isolated Very Heavy Falls over the upper catchments of all major rivers of IRS. As a result, medium-level flooding is expected in the Jhelum River (upstream) and Chenab River, including nullahs of Ravi and Chenab Rivers. Also, Low to Medium flows are expected in the hill torrents of D.G. Khan during this period.

8. PMD, Islamabad through its specialized Flood Forecasting Unit (FFD, Lahore) is closely monitoring the prevailing weather system and is keeping all concerned organizations fully cognizant of the situation.



(Dr. M. Ejaz Tanveer)
Chief Engineer (Floods)

For, Chairman, Federal Flood Commission

Distribution:

1. Chairman, Senate Standing Committee on Water Resources, Parliament House, Islamabad
2. Minister for Water Resources, Islamabad.
3. Minister for Planning, Development & Special Initiatives, Islamabad
4. Minister for Climate Change & Environmental Coordination, Islamabad.
5. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
6. Secretary, Ministry of Water Resources, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
8. Secretary, Ministry of Climate Change & Environmental Coordination, Islamabad.
9. Secretary, Ministry of National Food Security & Research, Islamabad.
10. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
11. Secretary, Senate Standing Committee on Water Resources, Parliament House, Islamabad.
12. Chairman, National Disaster Management Authority, Islamabad.
13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chief Executive Officer, Pakistan Railways, Lahore.
15. Chairman, Indus River System Authority, Islamabad.
16. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
17. Chairman, National Highway Authority, Islamabad.
18. Director General, Pakistan Meteorological Department, Islamabad.
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20. Member (Infrastructure), Planning Commission, Islamabad.
21. Chief Secretary, Government of the Punjab, Lahore.
22. Chief Secretary, Government of Sindh, Karachi.
23. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
24. Chief Secretary, Government of Balochistan, Quetta.
25. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
26. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
27. Secretary, Irrigation Department, Government of the Punjab, Lahore.
28. Secretary, Irrigation Department, Government of Sindh, Karachi
29. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar
30. Secretary, Irrigation Department, Government of Balochistan, Quetta.
31. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
32. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
33. Chief Engineer (Merged Areas), Irrigation Department, Government of K.P, Peshawar.
34. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
35. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.

Distribution:

36. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
37. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
39. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
40. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
41. Director General, Gilgit Baltistan Disaster Management Authority, Gilgit.
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43. Chief Commissioner, ICT, Islamabad.
44. Chairman, Capital Development Authority, Islamabad.
45. Commissioner, Rawalpindi.
46. Managing Director, WASA, Rawalpindi.
47. Principal Information Officer, Press Information Department, Islamabad.
48. Director (News), Associated Press of Pakistan, Islamabad.
49. Director (News), Pakistan Television, Islamabad.
50. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
51. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2024, dated 23-07-2024

Rivers and Reservoir Positions
July 23, 2024 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	315,000	163,000	181,000	201,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	310,000	303,000	218,000	210,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	347,000	345,000	247,000	235,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	273,000	261,000	220,000	195,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	192,000	161,000	176,000	139,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	147,000	98,000	128,000	77,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	63,000	26,000	71,000	30,000	Normal	650,000
River Kabul									
• Warsak	540,000				50,000		35,000	Normal	200,000
• Nowshera					66,000		49,000	Normal	200,000
River Swat									
• Chakdara Bridge					18,000		8,000	Normal	150,000
• Munda (H. Works)					34,000		8,000	Normal	150,000
• Charsadda Road	150,000				22,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	78,000	10,000	51,000	15,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	18,000	16,000	10,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	138,000	128,000	71,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	137,000	131,000	46,000	38,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	97,000	87,000	48,000	30,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	116,000	105,000	31,000	14,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	40,000	31,000	14,000	NIL	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		46,000		13,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		22,000		20,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	71,000	46,000	38,000	9,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	26,000	15,000	15,000	NIL	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	57,000	46,000	15,000	3,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	28,000	27,000	3,000	1,000	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (FL-AMSL)	Minimum Operating Level (FL-AMSL)	Water Level (Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2022	2023	2024	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1503.86	1525.89	1515.60	5.766	4.467	3.909	67.79 %
Chashma	649.00	638.15	644.00	640.80	643.50	0.278	0.037	0.089	32.01 %
Mangla	1242.00	1050.00	1135.40	1214.95	1197.60	7.277	5.329	4.106	56.42 %
Total Live Storage						13.321	9.833	8.104	60.84 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+/-)
Maximum	21.0 °C	34.2 °C	+ 13.2 °C
Minimum	14.3 °C	17.3 °C	+ 3.0 °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.	Sialkot	114
2.	Gujranwala	106
3.	Mandibahauddin	98
4.	Gujrat	63
5.	Narowal	54
6.	Lahore	45
7.	Mangla	42
8.	Jhelum	37
9.	Hafizabad	35
10.	Islamabad	30
11.	Murree	18
12.	Marala	17
13.	Sheikhupura	16
14.	Zafarwal & Kallar	08 each
B	Sindh	
15.	Mirpur Khas	13
16.	Mithi	07
17.	Badin, Karachi & Chhor	06 each
C	Khyber Pakhtunkhwa	
18.	Balakot	17
19.	Shinkiari	16
20.	Phulra	06
21.	Oghi	05
D	Balochistan	
22.	Lasbela	18
E	AJ&K	
23.	Domel	43
24.	Palandri & Kotli	27 each
25.	Chattar Kallas	26
26.	Dhulli	19
27.	Muzaffarabad	18
28.	Bandi Abbaspur	15
29.	Tandali	07

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