



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Advisor/
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
MONDAY, JULY 22, 2024

Presently River Indus is experiencing **Low Flood (due to downstream releases from Tarbela reservoir)** condition at Tarbela while all other major rivers of the Indus River System (Jhelum, Chenab, Ravi, and Sutlej), as well as the River Indus from Tarbela downstream to the Kotri Barrage (the last control structure before the Arabian Sea), are flowing under normal conditions. Detailed information on inflows/outflows at specified control structures, the storage position of major reservoirs, and the temperature at Skardu is provided in **Annexure-I**. Combined Live Storage capacity of the country's three major reservoirs (Tarbela, Chashma, and Mangla) stands at **8.109 MAF (60.87%** of the total live storage capacity of **13.321 MAF**). Last year, it was **9.648 MAF (71.42%** of **13.443 MAF**).

2. According to the latest synoptic analysis by FFD, Lahore, yesterday's Monsoon Low over Southwestern Odisha (India) now lies over Central Chhattisgarh (India) whereas trough of the Westerly Wave persists over northern Afghanistan with moderate pressure gradient prevailing over the upper parts of Pakistan and adjoining Afghanistan. With regards to other weather system, presently Seasonal Low lies over Eastern Balochistan and its trough is extending in Northward direction with moderate moist currents both from the Arabian Sea and Bay of Bengal are penetrating into upper parts of Pakistan upto 3000 feet and 5000 feet, respectively.

Weather Outlook for the Next 24-hours:

3. For the ensuing 24 hours, FFD, Lahore, has predicted scattered thunderstorm/rain of **Light to Moderate Intensity** over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & D.G. Khan Divisions), Southeastern Sindh and Balochistan (Zhub Division) including upper catchments of all major rivers of IRS. During the same period, isolated thunderstorm/rain of **Moderate Intensity** may occur over Punjab (Multan & Bahawalpur Divisions) and Balochistan (Sibbi, Kalat & Nasirabad Divisions). No major flood generating rainfall event has been experienced during the past 24 hours. Reported rainfall during the past 24 hours may be seen at **Annexure-II**.

Weather Outlook for the Next 72-hours:

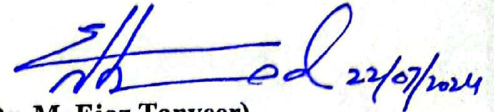
4. FFD, Lahore has predicated as follows:

- Widespread wind-thunderstorm/rain of **Moderate to Heavy Intensity** with isolated **Very Heavy Falls** over Islamabad, Punjab (Rawalpindi Division) and Khyber Pakhtunkhwa (Peshawar Division) including upper catchments of rivers Indus & Kabul.
- Scattered to widespread thunderstorm/rain of **Moderate Intensity** with isolated **Heavy Falls** over Sargodha, Gujranwala, Lahore, Faisalabad & D.G.Khan Divisions of Punjab and Kohat, Bannu & D.I. Khan Divisions of Khyber Pakhtunkhwa including the upper catchments of rivers Jhelum, Chenab, Ravi & Sutlej.
- Scattered thunderstorm rain of **Moderate Intensity** over Punjab (Multan, Sahiwal & Bahawalpur Divisions) and Balochistan (Zhub, Sibbi, Kalat & Nasirabad Divisions).

Extended Weather Outlook (23rd July 2024 to 29th July 2024) :

5. From 24th to 25th July 2024, Moderate to Heavy Rainfall with isolated Very Heavy Falls is expected over upper catchments of rivers Kabul and Indus and Moderate to Heavy Rainfall is also anticipated over the upper catchments of all other major rivers of IRS. There is a likelihood of a new rain spell starting over the upper catchments of all major rivers of the Indus River System from 28th July 2024.

6. 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.
19. Member (Water), WAPDA, WAPDA House, Lahore.
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.
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.
42. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
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 22-07-2024

Rivers and Reservoir Positions July 22, 2024 at 0600 Hours

A. River Flow Situation:

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
River Indus														
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	301,000	282,000	161,000	253,000	Low Flood	650,000					
• Kalabagh	950,000	950,000	14-7-1942	297,000	289,000	214,000	206,000	Normal	650,000					
• Chashma Reservoir	950,000	1,036,673	01-8-2010	346,000	343,000	246,000	235,000	Normal	650,000					
• Taunsa	1,000,000	959,991	02-8-2010	222,000	204,000	225,000	202,000	Normal	650,000					
• Guddu	1,200,000	1,199,672	15-8-1976	185,000	152,000	180,000	144,000	Normal	700,000					
• Sukkur	900,000	1,161,000	16-8-1976	145,000	91,000	126,000	76,000	Normal	700,000					
• Kotri	875,000	981,000	14-8-1956	65,000	26,000	78,000	37,000	Normal	650,000					
River Kabul														
• Warsak	540,000				43,000		35,000	Normal	200,000					
• Nowshera					67,000		54,000	Normal	200,000					
River Swat														
• Chakdara Bridge					16,000		8,000	Normal	150,000					
• Munda (H. Works)					18,000		8,000	Normal	150,000					
• Charsadda Road	150,000				18,000		10,000	Normal	100,000					
River Jhelum														
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	58,000	10,000	25,000	15,000	Normal	225,000					
• Rasul	850,000	952,170	10-9-1992	7,000	5,000	10,000	NIL	Normal	225,000					
River Chenab														
• Marala	1,100,000	1,100,000	26-8-1957	120,000	111,000	66,000	38,000	Normal	400,000					
• Khanki	1,100,000	1,086,460	27-8-1959	99,000	91,000	42,000	35,000	Normal	400,000					
• Qadirabad	900,000	948,530	11-9-1992	84,000	74,000	42,000	24,000	Normal	400,000					
• Trimmu	875,000	943,225	08-7-1959	97,000	87,000	27,000	10,000	Normal	450,000					
• Panjnad	865,000	802,516	17-8-1973	30,000	19,000	18,000	4,000	Normal	450,000					
River Ravi														
• Jassar	275,000	680,000	05-10-1955		40,000		17,000	Normal	150,000					
• Shahdara	250,000	680,000	22-9-1988		27,000		18,000	Normal	135,000					
• Balloki	380,000	336,200	28-9-1988	60,000	32,000	35,000	8,000	Normal	135,000					
• Sidhnai	150,000	330,210	02-10-1988	28,000	16,000	15,000	NIL	Normal	90,000					
River Sutlej														
• Suleimanki	325,000	598,872	08-10-1955	47,000	36,000	16,000	5,000	Normal	175,000					
• Islam	332,000	492,581	11-10-1955	28,000	27,000	2,000	NIL	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)
			2022	2023	2024	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1501.31	1523.89	1515.96	5.766	4.361	3.927	68.11 %
Chashma	649.00	638.15	644.40	643.10	644.00	0.278	0.080	0.100	35.97 %
Mangla	1242.00	1050.00	1134.10	1213.20	1197.20	7.277	5.207	4.082	56.09 %
Total Live Storage						13.321	9.648	8.109	60.87 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	23.6 °C	32.6 °C	+ 9.0 °C
Minimum	14.3 °C	17.5 °C	+ 3.2 °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.	Faisalabad	37
2.	Kallar & Sialkot	20 each
3.	Islamabad	17
4.	Gujrat	12
5.	Lahore & Narowal	11 each
B	Sindh	
6.	Karachi	20
C	Khyber Pakhtunkhwa	
7.	Besham	31
8.	Shinkiari	18
D	Balochistan	
9.	Ziarat	11
10.	Zhob	07
E	AJ&K	
11.	Dhulli	16
12.	Palandri	07
13.	Garhi Dopatta	05

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