



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
THURSDAY, JULY 04, 2024

River & Major Reservoirs Position:

At present, River Kabul is experiencing **Medium Flood** at **Nowshera** and **Low Flood** at **Warsak**. The rest of major rivers of Indus River System (IRS) are flowing at normal discharges. **Annexure-I** indicates detailed information (Inflows/outflows of major rivers, current reservoir levels, storage position of key reservoirs and temperature at Skardu). As of today, more than 50% live combined storage capacity is available to absorb any high inflows, if experienced based on FFD's Forecast.

Prevailing Meteorological Conditions:

2. As per analysis of FFD, Lahore, a moderate moisture influx from both the Arabian Sea and the Bay of Bengal are advancing towards upper catchments of all the major rivers of IRS and extending up to 5000 feet. This system is influenced by a trough of an extratropical (outside tropics) storm and jet stream prevailing over the northern parts Pakistan besides divergence of winds along the foothills of the Himalayas (India) towards Pakistan. This has resulted in strengthening of this moisture incursion. Further, yesterday's strong trough of an extratropical storm presently prevails over northern parts of Pakistan and is expected to remain stagnant there for the next three days. As such it is likely to affect significantly the upper half of Pakistan including upper catchment areas in India, from 4th to 7th July 2024.

Next 24 Hours Rainfall Forecast:

3. For the next 24 hours, FFD, Lahore has predicted **widespread Moderate to Heavy** thunderstorm rain/showers with isolated **Very Heavy Falls** over **Punjab Province** except Multan & Bahawalpur Divisions (where isolated thunderstorm rain may occur) and **Khyber Pakhtunkhwa Province** including upper catchments of all major rivers of IRS. Significant rainfall events reported during the past 24 hours may be seen at **Annexure-II**.

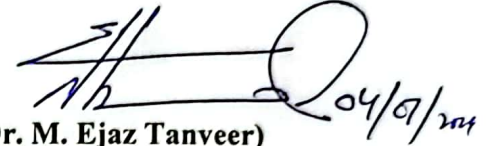
FFD's Extended Weather & Flood Forecast (July 05-11, 2024):

4. The current wet spell is expected to continue with same intensity up to 7th July 2024. Widespread activity of **Moderate to Heavy** thundershower with isolated **Very Heavy Fall** is expected upto 7th July 2024 over upper catchments of all major rivers of IRS and may decrease thereafter. Under the influence of this system FFD, Lahore has predicted the following:

- **Medium to High Level Flood** peaks in the River Jhelum at Mangla (upstream), River Chenab at Marala and downstream, and River Kabul at Nowshera and its tributaries between 4th to 7th July 2024.
- Likely increase in the flows in nullahs of Rivers Ravi and Chenab catchments including the hill torrents of D.G. Khan Division, during the 4th to 7th July 2024.
- Urban flooding is also expected in Lahore, Sialkot, Gujranwala, Narowal, Rawalpindi, Faisalabad and Peshawar from 4th to 7th July 2024.

5. Considering the current situation, all Flood Management Organizations are advised to maintain a state of high alert and vigilance. It is crucial that they promptly respond to any issued warnings to ensure the safety of communities living in low-lying areas. Their swift action is necessary to safeguard public and private properties, irrigation systems, drainage, and flood protection/river training infrastructures.

6. The Pakistan Meteorological Department (PMD), Islamabad, through its specialized Flood Forecasting Unit (FFD Lahore), is closely monitoring the present weather system and ensuring all relevant organizations are well-informed about 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. Chairman PCRWR, Ministry of Water Resources, Islamabad.
19. Director General, Pakistan Meteorological Department, Islamabad.
20. Member (Water), WAPDA, WAPDA House, Lahore.
21. Member (Infrastructure), Planning Commission, Islamabad.
22. Chief Secretary, Government of the Punjab, Lahore.
23. Chief Secretary, Government of Sindh, Karachi.
24. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
25. Chief Secretary, Government of Balochistan, Quetta.
26. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
27. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
28. Chief Commissioner, ICT, Islamabad.
29. Chairman, Capital Development Authority, Islamabad.
30. Commissioner, Rawalpindi.
31. Secretary, Irrigation Department, Government of the Punjab, Lahore.
32. Secretary, Irrigation Department, Government of Sindh, Karachi
33. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar
34. Secretary, Irrigation Department, Government of Balochistan, Quetta.
35. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
36. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.

Distribution:

37. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
38. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
39. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
40. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
41. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
42. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
43. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
44. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
45. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
46. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
47. Managing Director, WASA, Rawalpindi.
48. Principal Information Officer, Press Information Department, Islamabad.
49. Director (News), Associated Press of Pakistan, Islamabad.
50. Director (News), Pakistan Television, Islamabad.
51. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
52. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2024, dated 04-07-2024

Rivers and Reservoir Positions July 04, 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	188,000	248,000	286,000	125,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	206,000	198,000	198,000	190,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	226,000	215,000	206,000	200,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	202,000	182,000	195,000	168,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	204,000	167,000	144,000	105,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	127,000	72,000	80,000	33,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	39,000	1,000	38,000	1,000	Normal	650,000
River Kabul									
• Warsak	540,000				30,000		54,000	Low Flood	200,000
• Nowshera					60,000		93,000	Medium Flood	200,000
River Swat									
• Chakdara Bridge					13,000		12,000	Normal	150,000
• Munda(H. Works)					14,000		16,000	Normal	150,000
• Charsadda Road	150,000				15,000		23,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	58,000	10,000	65,000	29,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	16,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	77,000	49,000	81,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	49,000	42,000	56,000	48,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	50,000	28,000	66,000	46,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	37,000	22,000	33,000	16,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	33,000	19,000	10,000	NIL	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		4,000		2,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		13,000		14,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	35,000	7,000	34,000	7,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	19,000	3,000	18,000	2,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	17,000	5,000	17,000	3,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	4,000	3,000	3,000	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	1428.82	1512.00	1491.96	5.766	3.749	2.783	48.27 %
Chashma	649.00	638.15	641.80	643.10	648.40	0.278	0.080	0.247	88.85 %
Mangla	1242.00	1050.00	1107.75	1184.50	1187.35	7.277	3.423	3.503	48.14 %
Total Live Storage						13.321	7.252	6.533	49.04 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	34.2 °C	35.2 °C	+ 1.0 °C
Minimum	14.4 °C	18.4 °C	+ 4.0 °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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THURSDAY JULY 04, 2024**

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Mangla	56
2.	Islamabad	44
3.	Sialkot	43
4.	Gujrat	35
5.	Narowal	32
6.	Kallar	25
7.	Jhelum	22
8.	Gujranwala	13
9.	Chakwal	11
10.	Lahore	09
B	Khyber Pakhtunkhwa	
11.	Lower Dir	34
12.	Tarbela	25
13.	Pashat-Bajaur	06
14.	Takht Bai	05
C	Balochistan	
15.	Barkhan	11
D	AJ&K	
16.	Garhi Dopatta	07
17.	Kotli & Muzaffarabad	06 each

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