



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
WEDNESDAY, JULY 03, 2024

River & Major Reservoirs Position:

All major rivers in the Indus River System (IRS) are flowing within their normal flow regime, except for the River Kabul, which is presently experiencing Medium Flood condition in the Warsak-Nowshera reach. **Annexure-I** provides details on the levels and storage positions of the country's major reservoirs, inflows/outflows of major rivers at key control points, and the temperature at Skardu. The present combined live storage capacity of major reservoirs stands at **6.186 MAF** i.e. **46.44%** of the total **13.321 MAF**.

Prevailing Meteorological Conditions:

2. Yesterday's strong trough of extratropical storm over northeastern parts of Afghanistan and adjoining areas continues to remain stationary which may affect significantly the upper half of Pakistan during 4th to 7th July 2024. The sub-tropical jet stream presently over northern parts of Pakistan is a source of favorable environment for development of current weather systems. Moderate moisture influx from both Arabian Sea and Bay of Bengal are advancing towards the upper catchments of eastern rivers and extending up to 5000 feet as per the analysis of FFD, Lahore. The strength of the moisture incursion from above both sources, influenced by a trough of an extratropical storm and jet stream that may become strengthen from 4th July 2024 (**Source: FFD, Lahore**).

3. Monsoon trough generated from the Bay of Bengal (India) earlier lying along the foothill of Himalaya (eastern rivers catchments) has now become further **Marked**. A Seasonal Low lies over northeastern Balochistan and adjoining areas which has a central pressure below 989 hPa and its trough is extending. Another weather system with steep pressure gradient lies over northeastern parts of Afghanistan which may produce stronger winds during 4th to 7th July 2024.

Next 24 Hours Rainfall:

4. For the next 24 hours, FFD, Lahore has predicted scattered thunderstorm with **Moderate to Heavy** rain over upper catchments of rivers Ravi and Sutlej. During the same period, scattered thunderstorm with **Moderate Intensity** rains may occur over **Islamabad and Punjab (Rawalpindi, Sargodha, Gujranwala Lahore & D.G. Khan Divisions)** including upper catchments of rivers Indus, Jhelum & Chenab. Moreover, isolated thunderstorm/ rain of **Light Intensity** over **Bahawalpur Division (Punjab), South & Southeastern Sindh and Balochistan (Sibbi, Nasirabad, Kalat & Makran Divisions)** is also expected.

5. No significant rainfall events have been reported during the past 24 hours except 28 mm for Kasur (Punjab) and 10 mm for Besham (Khyber Pakhtunkhwa).


FFD's Extended Weather & Flood Forecast (July 04-10, 2024):

6. There is a likelihood of widespread activity of **Moderate to Heavy** thundershower with isolated **Very Heavy fall** over upper catchments of all major rivers of IRS during **4th to 7th July 2024**. As a result, FFD, Lahore predicts the following during this period:

- **Medium to High Level Flood** peaks in the River Jhelum at Mangla (Upstream), River Chenab at Marala & downstream, and River Kabul at Nowshera and its tributaries.
- Increased flows in nullahs of catchments of Rivers Ravi and Chenab including hill torrents of D.G. Khan Division.
- **Urban flooding** in Lahore, Sialkot, Gujranwala, Narowal, Rawalpindi, Faisalabad and Peshawar.

7. All Flood Management Organizations are advised to maintain a state of alertness and vigilance. They should promptly act upon issued warnings to safeguard communities residing in low-lying areas, and to protect both public and private property, irrigation systems, drainage, and flood protection infrastructure.

8. Pakistan Meteorological Department (PMD), Islamabad, with the support of FFD, Lahore, is closely monitoring the current weather system and ensuring all relevant organizations are fully informed about the situation.


(Dr. M. Ejaz Tanveer)
Chief Engineer (Floods)
03/07/2024

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.
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23. Chief Secretary, Government of Sindh, Karachi.

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35. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
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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 03-07-2024

Rivers and Reservoir Positions July 03, 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	186,000	159,000	263,000	129,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	199,000	192,000	202,000	194,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	226,000	217,000	215,000	209,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	209,000	188,000	195,000	168,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	167,000	130,000	138,000	102,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	119,000	64,000	71,000	24,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	32,000	NIL	45,000	3,000	Normal	650,000
River Kabul									
• Warsak	540,000				40,000		61,000	Medium Flood	200,000
• Nowshera					62,000		92,000	Medium Flood	200,000
River Swat									
• Chakdara Bridge					13,000		10,000	Normal	150,000
• Munda (H. Works)					15,000		18,000	Normal	150,000
• Charsadda Road	150,000				14,000		25,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	69,000	10,000	50,000	29,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	13,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	71,000	44,000	81,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	47,000	40,000	56,000	48,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	41,000	19,000	63,000	44,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	42,000	27,000	30,000	12,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	31,000	16,000	12,000	NIL	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		5,000		2,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		14,000		15,000	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	20,000	5,000	17,000	1,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	18,000	6,000	16,000	3,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	2,000	1,000	3,000	NIL	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (FI-AMSL)	Minimum Operating Level (FI-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	1420.82	1512.06	1485.35	5.766	3.752	2.491	43.20 %
Chashma	649.00	638.15	641.40	643.80	648.50	0.278	0.096	0.253	91.01 %
Mangla	1242.00	1050.00	1104.70	1182.80	1186.25	7.277	3.328	3.442	47.30 %
Total Live Storage						13.321	7.176	6.186	46.44 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	31.6 °C	32.6 °C	+ 1.0 °C
Minimum	13.4 °C	18.5 °C	+ 5.1 °C

NOTES: "Mild" Categories

Low Flood:

Medium Flood:

High Flood:

River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas

River partly inundating river islands/belas

River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboard

"Danger" Categories

Very High Flood (VHF):

Exceptionally High Flood (EHF):

River flowing between high banks/bunds with encroachment on the freeboard

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.