



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
TUESDAY, JULY 30, 2024

River Indus at the reporting time today is flowing in “**Low Flood**” at Kalabagh (downstream of Tarbela). Also River Kabul is flowing in “**Low Flood**” at Warsak. All other main rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej) are presently in Normal Flow Conditions. **Annexure-I** depicts main rivers inflows/ outflows at important control structures, reservoirs storage position and Skardu temperature. Today's Combined Live Storage of major reservoirs (Tarbela, Mangla & Chashma) is **8.653 MAF** (i.e. **64.96%** of the total value of **13.321 MAF**).

2. Yesterday's Monsoon Low over central Madhya Pradesh (India) has rapidly moved westward and is now positioned over Southeastern Sindh and adjoining areas. Also, a trough of strong Westerly Wave that was previously over Northern Afghanistan now lies over Northern Pakistan, while the Seasonal Low is situated over Northwestern Balochistan. Further, moderate moist currents from both the Arabian Sea and the Bay of Bengal are penetrating most parts of Pakistan up to 5000 feet.

Weather Forecast (Next 48-Hours):

3. **Scattered to widespread thunderstorm rain of Moderate to Heavy Intensity with isolated Very Heavy Rainfall over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore and D.G. Khan Divisions) and Khyber Pakhtunkhwa** including upper catchments of all major rivers are expected. Scattered thunderstorm rain with **Isolated Heavy Falls** may occur over **Punjab (Multan, Bahawalpur, Sahiwal & Faisalabad Divisions), Sindh and over Balochistan (Zhob, Sibbi, Nasirabad & Kalat Divisions).**

4. Significant rainfall event reported during past 24 hours may be seen at **Annexure-II (Source: FFD, Lahore).**

Extended Weather Outlook and Flood Forecast (31th July to 6th August 2024):


5. **Widespread thunderstorm rain of Moderate to Heavy Intensity with scattered Very Heavy Falls and isolated Extremely Heavy Rainfall** are expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Multan & D.G. Khan Divisions), Khyber Pakhtunkhwa and Balochistan (Zhob, Sibbi, Nasirabad & Kalat Divisions)** including upper catchments of all major rivers of IRS. Scattered thunderstorm rain with isolated **Heavy Falls** is also expected over **Bahawalpur, Sahiwal and Faisalabad Divisions of Punjab and Sindh Province.**

6. As per the prediction of FFD, Lahore, the above Met Conditions may result into flood situation between **1st August to 4th August 2024** as given below:

- **Medium to High level flood** is expected in rivers **Jhelum (Mangla Upstream), Kabul** and its tributaries & **Chenab at Marala, Khanki and Qadirabad** along with nullahs of Rivers **Ravi and Chenab** catchments.
- **Low to Medium level flows** are also expected in **River Indus at Tarbela**, hill torrents of **D.G. Khan Division** and nullahs of **Zhob, Sibbi, Nasirabad and Kalat Divisions of Balochistan.**

6. All Relevant Organizations are advised to remain Fully Alert and Vigilant and to take prompt action in response to warnings issued by the relevant authorities to ensure the safety of communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

7. 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.

Distribution:

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 30-07-2024

Rivers and Reservoir Positions
July 30, 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	284,000	257,000	265,000	171,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	323,000	315,000	263,000	255,000	Low Flood	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	356,000	352,000	253,000	235,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	368,000	368,000	222,000	197,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	467,000	450,000	177,000	145,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	391,000	360,000	126,000	77,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	144,000	109,000	76,000	43,000	Normal	650,000
River Kabul									
• Warsak	540,000				34,000		42,000	Low Flood	200,000
• Nowshera					73,000		57,000	Normal	200,000
River Swat									
• Chakdara Bridge					14,000		10,000	Normal	150,000
• Munda (H. Works)					20,000		15,000	Normal	150,000
• Charsadda Road	150,000				19,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	75,000	10,000	36,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	8,000	5,000	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	96,000	79,000	80,000	53,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	85,000	78,000	64,000	56,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	83,000	73,000	68,000	49,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	87,000	78,000	29,000	14,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	104,000	94,000	14,000	NIL	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		42,000		10,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		34,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	74,000	59,000	39,000	10,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	45,000	34,000	22,000	7,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	72,000	72,000	17,000	4,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	46,000	46,000	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	1527.00	1534.61	1521.99	5.766	4.938	4.229	73.34 %
Chashma	649.00	638.15	639.00	638.50	644.10	0.278	0.004	0.103	37.05 %
Mangla	1242.00	1050.00	1149.30	1227.00	1201.10	7.277	6.196	4.321	59.38 %
Total Live Storage						13.321	11.138	8.653	64.96 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ /-)
Maximum	21.6 °C	36.6 °C	+ 15.0 °C
Minimum	13.5 °C	20.0 °C	+ 6.5 °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	81
2.	Faisalabad	71
3.	T.T. Singh	64
4.	Kamra	63
5.	Okara	46
6.	Sargodha	44
7.	Attock	32
8.	Mandibahauddin	30
9.	Jhang	26
10.	Murree	23
11.	Noorpur Thal	16
12.	Kallar	15
13.	Bahawalpur	14
14.	Mangla	13
15.	Chakwal	11
B Sindh		
16.	Chhor	58
17.	Khairpur	18
18.	Jacobabad & Larkana	15 each
19.	Mirkhani	13
20.	Karachi	10
C Khyber Pakhtunkhwa		
21.	Cherat	88
22.	Mamad Gut	75
23.	Risalpur	64
24.	Malam Jabba	54
25.	Tarbela	53
26.	Dir	50
27.	Balakot	42
28.	Khawagoobo Bridge & Khaar-Bajaur	39 each
29.	Takht Bai & Saidu Sharif	33 each
30.	Ghalanai	31
31.	Phulra	30
32.	Bosak Bridge	28
33.	Shinkiari	24
34.	Kohat Airbase & Peshawar	20 each
35.	Kakul	16
36.	Besham	14
37.	Chowni Bridge, Lower Dir & Warsak Dam	12 each
D Balochistan		
38.	Sibbi	31
39.	Barkhan & Loralai	19 each
40.	Ziarat	18
E AJ&K		
41.	Palandri	37
42.	Muzaffarabad	21
43.	Kotli & Chakothi	17 each
44.	Dhulli & Chattar Kallas	10 each

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