



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
MONDAY, AUGUST 12, 2024

Owing to persistent high temperatures in the catchment areas (Skardu) combined with recent rainfall, the Indus River is currently experiencing significant inflows. As a result, the river is flowing in "**Medium Flood**" between Taunsa and Guddu, and in "**Low Flood**" between Tarbela and Chashma, as well as at the Sukkur Barrage. Additionally, the Kabul River is flowing in "**Low Flood**" level at Nowshera. All other major rivers in the Indus River System, including the Jhelum, Chenab, Ravi and Sutlej are maintaining normal flow levels. Detailed information on the river flow situation and reservoir storage can be found in **Annexure-I**.

2. At present, the combined live storage of the country's major reservoirs (Tarbela, Mangla, and Chashma) stands at **10.509 MAF** which is **77.53%** of the total live storage capacity of **13.354 MAF**. Notably, the Tarbela Reservoir is nearing its Maximum Conservation Level (MCL), with its current level at **1545 feet** (just **5 feet** below the **MCL: 1550 feet**). Tarbela Dam Management Authority is advised to regulate the reservoir in accordance with approved SOPs to safeguard lives and properties downstream in the event of increased inflows.

3. According to the FFD, Lahore, yesterday's Upper Air Cyclonic Circulation over South Uttar Pradesh (India) today lies over North Madhya Pradesh (India) whereas Westerly Wave trough previously over Northern Pakistan has moved away in Eastwards direction. Seasonal Low is positioned over Northern Balochistan and light to moderate moist currents from both the Arabian Sea and Bay of Bengal are now penetrating into most parts of Pakistan upto 3000 feet.

4. For the ensuing 24 hours, FFD, Lahore has predicted isolated thunderstorm rain of **Moderate Intensity** over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & D.G.Khan Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I.Khan Divisions) and Balochistan (Zhob, Sibbi, Nasirabad & Kalat Divisions) including upper catchments of all major rivers of IRS. Subdued rainfall activity is likely to continue during next 48 hours. Significant rainfall events reported during the past 24 hours may be seen at **Annexure-II**.

5. For the extended period, **15th to 17th August 2024**, Monsoon activity of **Moderate to Heavy Intensity** with isolated **Very Heavy Falls** is expected over North-Northeastern Punjab including upper catchment of all major rivers of IRS. This may result into rise in flows of all major rivers including Nullahs in the catchments of rivers Ravi and Chenab during the same period (**Source: FFD, Lahore**).

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 safety of the communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

7. Pakistan Meteorological Department (PMD), Islamabad, through its Specialized Flood Forecasting Unit (FFD Lahore) is monitoring the present weather system on round-the-clock basis and keeping all relevant organizations fully cognizant of the developing 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.

Distribution:

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 12-08-2024

Rivers and Reservoir Positions August 12, 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	230,000	256,000	288,000	254,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	236,000	228,000	332,000	324,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	200,000	173,000	290,000	271,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	242,000	224,000	409,000	402,000	Med Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	283,000	251,000	426,000	401,000	Med Flood (S)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	237,000	183,000	381,000	339,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	226,000	186,000	175,000	135,000	Normal	650,000
River Kabul									
• Warsak	540,000				28,000		35,000	Normal	200,000
• Nowshera					42,000		65,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					12,000		9,000	Normal	150,000
• Munda (H. Works)					13,000		10,000	Normal	150,000
• Charsadda Road	150,000				13,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	34,000	10,000	38,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	73,000	44,000	91,000	74,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	50,000	42,000	102,000	94,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	49,000	39,000	84,000	66,000	Normal	400,000
• Trinunu	875,000	943,225	08-7-1959	63,000	53,000	78,000	63,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	77,000	61,000	43,000	31,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		27,000		34,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		31,000		11,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	40,000	17,000	40,000	11,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	26,000	9,000	27,000	12,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	60,000	47,000	19,000	6,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	44,000	42,000	6,000	4,000	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Feet-AMSL)	Minimum Operating Level (Feet-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	1544.20	1549.22	1545.00	5.766	5.764	5.479	95.02 %
Chashma	649.00	638.15	642.60	646.00	644.00	0.311	0.153	0.112	36.01 %
Mangla	1242.00	1050.00	1167.80	1238.75	1210.20	7.277	7.096	4.918	67.58 %
Total Live Storage						13.354	13.013	10.509	78.70 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	33.7 °C	33.6 °C	- 0.1 °C
Minimum	17.4 °C	17.2 °C	- 0.2 °C

NOTE-1: "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

NOTE-2: "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

NOTE-3: * 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.

NOTE-4: Maximum Live Storage Capacity has increased from 13.321 MAF to 13.354 MAF due to de-silting of Chashma Barrage causing increase in its Live Storage Capacity from 0.278 MAF to 0.311 MAF.

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MONDAY, AUGUST 12, 2024

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Jhang	81
2.	Kallar	30
3.	Islamabad & Sargodha	20 each
4.	Noorpur Thal	18
5.	Mangla	17
6.	Kasur	13
7.	Jhelum	10
8.	Lahore	09
9.	D.G Khan & Layyah	07 each
10.	Mianwali	06
B	Sindh	
11.	Karachi	07
C	Khyber Pakhtunkhwa	
12.	Risalpur	46
13.	Malam Jabba	19
14.	Besham	12
15.	Kakul	09
16.	Nowshera	06

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