



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 19, 2024

With the grace of Almighty Allah and careful and sensible reservoir filling by the Tarbela Dam Management, Tarbela Dam has reached its Maximum Conservation Level of **1550 feet** today. This significant achievement in water storage is poised to greatly benefit the country's agriculture during the next cropping season. As of today, the total storage in the country's major reservoirs stands at **11.037 MAF**, which is **82.65%** of the total live storage capacity of **13.354 MAF**. Tarbela Dam Management is advised to remain vigilant and regulate the reservoir in accordance with approved SOPs and Dam Safety Guidelines to ensure the protection of downstream communities in the event of high flows.

2. **River Indus** continues to experience "**Medium Flood**" in **Taunsa-Sukkur** reach and in "**Low Flood**" in **Tarbela-Chashma** reach. Also, River Kabul at Nowshera is flowing in "**Low Flood**". Other major rivers in the Indus River System i.e. Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. **Annexure-I** provides detailed information on the rivers flow situation and reservoir storage levels as of 0600 hours today.


3. According to FFD, Lahore, yesterday's Well Marked Low Pressure Area over North Bay of Bengal and adjoining Bangladesh remained stationary there whereas the Low Pressure system over Larkana District has weakened into trough. Further, Seasonal Low persists over Northwestern Balochistan while strong Westerly Wave trough that was previously over Northern Afghanistan has shifted to Northeastern Afghanistan and adjoining areas of Pakistan. Light to moderate moist currents from Arabian Sea were penetrating into most parts of Pakistan up to 3000 feet at reporting time today.

4. For the next 24 hours, FFD, Lahore, has predicted scattered thunderstorm rain of **Moderate Intensity** with isolated **Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Multan & D.G.Khan Divisions), Sindh (Larkana, Shaheed Benazirabad, Sukkur & Hyderabad Divisions), Khyber Pakhtunkhwa and Balochistan (Zhob, Sibbi, Nasirabad, Loralai, Kalat & Makran Divisions)** including upper catchments of all major rivers of IRS. Significant rainfall event reported during the past 24 hours may be seen at **Annexure-II**.

5. For the extended period of next 48 hours, wet spell is likely to decrease further in southern parts of Pakistan. Nonetheless, a fresh wet spell of **Moderate Intensity** with isolated **Heavy Falls** is expected over **Islamabad, Punjab (Rawalpindi, Sargodha & D.G.Khan Divisions)** and **Khyber Pakhtunkhwa** including upper catchments of rivers Indus, Jhelum & Kabul besides **Moderate Intensity** rainfall over **Punjab (Gujranwala & Lahore Divisions)** including upper catchments of rivers Chenab, Ravi and Sutlej (**Source: FFD, Lahore**).

6. All concerned organizations are advised to remain on **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), through its specialized Flood Forecasting Division (FFD) in Lahore, is closely monitoring the current weather system and keeping all relevant authorities fully informed of any developments.



19/08/2024

(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.

Distribution:

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 19-08-2024

Rivers and Reservoir Positions
August 19, 2024 at 0600 Hours

(Discharge in Cusecs)

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	6	7	8	9	10
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	200,000	155,000	259,000	257,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	219,000	211,000	295,000	290,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	257,000	236,000	358,000	340,000	Low Flood (S)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	228,000	209,000	390,000	380,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	258,000	226,000	381,000	381,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	215,000	161,000	385,000	371,000	Med Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	168,000	128,000	222,000	188,000	Normal	650,000
River Kabul									
• Warsak	540,000				27,000		37,000	Normal	200,000
• Nowshera					33,000		63,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					11,000		8,000	Normal	150,000
• Munda (H. Works)					10,000		11,000	Normal	150,000
• Charsadda Road	150,000				9,000		12,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	23,000	22,000	22,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	19,000	16,000	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	67,000	44,000	63,000	38,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	50,000	42,000	60,000	52,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	42,000	32,000	58,000	40,000	Normal	400,000
• Trimnu	875,000	943,225	08-7-1959	81,000	68,000	90,000	81,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	71,000	55,000	57,000	57,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		24,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		29,000		20,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	39,000	31,000	54,000	27,000	Normal	135,000
• Sidhni	150,000	330,210	02-10-1988	37,000	19,000	22,000	15,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	80,000	66,000	18,000	10,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	32,000	30,000	11,000	11,000	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	1549.20	1549.42	1550.00	5.766	5.776	5.766	100 %
Chashma	649.00	638.15	640.00	649.00	643.60	0.311	0.278	0.102	32.80 %
Mangla	1242.00	1050.00	1174.75	1242.00	1213.80	7.277	7.356	5.169	71.03 %
Total Live Storage						13.354	13.410	11.037	82.65 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	33.6 °C	27.6 °C	- 6.0 °C
Minimum	16.2 °C	15.3 °C	- 0.9 °C

NOTE-1: "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

NOTE-2: "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

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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A Punjab		
1.	Lahore	62
2.	D.G. Khan	12
3.	Sheikhupura	10
4.	Sargodha	07
B Sindh		
5.	Karachi	70
6.	Jacobabad	52
7.	Sukkur	16
8.	Rohri	15
9.	Dadu & Sakrand	12 each
10.	Khairpur & Thatta	06 each
C Khyber Pakhtunkhwa		
11.	Bhandu Wala	69
12.	Ghalanai	55
13.	Landi Kotal	12
14.	Khaar-Bajaur	11
D Balochistan		
15.	Barkhan	11
16.	Chaman	09
17.	Lasbela	08
18.	Ormara	06
19.	Gawader, Khuzdar & Panjgur	05 each
E Gilgit-Baltistan		
20.	Bagrote	06
E AJ&K		
21.	Panjera	12

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