



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
TUESDAY, AUGUST 20, 2024

River Indus at the reporting time today is flowing in "Medium Flood" in Taunsa-Sukkur reach. It is in "Low Flood" in Tarbela-Chashma reach. Similarly, River Kabul (a tributary of River Indus) is flowing in "Low Flood" at Nowshera. Rest of the major Rivers (Jhelum, Chenab Ravi & Sutlej) is flowing with Normal Flow Condition. Inflows/ Outflows of major rivers at specified locations, besides country's major reservoirs storage position may be seen at **Annexure-I**.

2. Tarbela Dam has maintained its Maximum Conservation Level (MCL) of 1550 feet since yesterday, while Mangla Reservoir still has 29.88% capacity available to absorb potential flood peaks. Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is 11.061 MAF (82.83 % of Total Live Storage Capacity of 13.354 MAF). Tarbela Dam Management is advised to take utmost care in regulation of reservoir in accordance with approved SOPs and Dam Safety Guidelines in order to ensure the protection of downstream communities in the event of high flows.

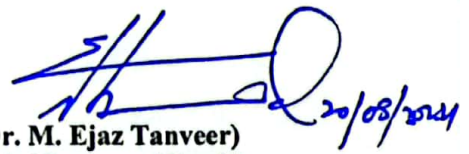
3. As per present meteorological situation, yesterday's Well Marked Low Pressure Area over North Bay of Bengal and adjoining Bangladesh has weakened into Low and remained stationary there. Trough of Westerly Wave continues to prevail over Northeastern Afghanistan and adjoining Pakistan whereas Seasonal Low lies over Northwestern Balochistan. Light to moderate moist currents from the Arabian Sea were penetrating into upper parts of Pakistan up to 5000 feet at the reporting time.

4. For the ensuing 24 hours, FFD, Lahore has predicted scattered thunderstorm rain of Moderate Intensity with isolated Heavy Falls over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & D.G.Khan Divisions), Khyber Pakhtunkhwa and Balochistan (Zhob & Kalat Divisions) including upper catchments of all major rivers of IRS. Significant rainfall events experienced during the past 24 hours may be seen at **Annexure-II**.

5. No significant weather changes are expected in the next 48 hours, though moderate rainfall with isolated Heavy Falls may continue until August 25, 2024. From August 26, 2024, monsoon activity is expected to intensify nationwide. Consequently, flows in major rivers, tributaries, hill torrents, and nullahs may rise from August 27, 2024 onwards (Source: FFD, Lahore).

6. All concerned organizations are advised to remain on Alert and to take prompt action in response to Flood Warnings issued by the relevant authorities in order 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 prevailing weather system and keeping all relevant fully informed of any developments.


(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 20-08-2024

Rivers and Reservoir Positions August 20, 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	201,000	155,000	265,000	257,000	Low Flood (S)	650,000
• Kolabagh	950,000	950,000	14-7-1942	205,000	197,000	320,000	314,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	266,000	245,000	307,000	290,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	228,000	209,000	395,000	385,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	257,000	224,000	394,000	394,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	216,000	161,000	385,000	371,000	Med Flood (S)	700,000
• Kotri	875,000	981,000	14-8-1956	162,000	122,000	231,000	195,000	Normal	650,000
River Kabul									
• Warsak	540,000				27,000		36,000	Normal	200,000
• Nowshera					33,000		61,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					11,000		8,000	Normal	150,000
• Munda (H. Works)					9,000		11,000	Normal	150,000
• Charsadda Road	150,000				9,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	24,000	22,000	18,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	15,000	12,000	2,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	65,000	40,000	74,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	49,000	40,000	50,000	42,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	40,000	30,000	48,000	30,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	70,000	56,000	91,000	82,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	71,000	55,000	62,000	56,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		20,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		30,000		18,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	38,000	30,000	47,000	19,000	Normal	135,000
• Sidhna	150,000	330,210	02-10-1988	38,000	20,000	29,000	20,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	113,000	113,000	17,000	7,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	32,000	30,000	9,000	8,000	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	1550.00	1549.59	1550.00	5.766	5.786	5.766	100 %
Chashma	649.00	638.15	640.90	649.00	644.00	0.311	0.278	0.112	36.01 %
Mangla	1242.00	1050.00	1175.40	1242.00	1214.00	7.277	7.356	5.183	71.22 %
Total Live Storage						13.354	13.420	11.061	82.83 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ /-)
Maximum	34.1 °C	29.4 °C	- 4.7 °C
Minimum	16.4 °C	16.4 °C	0.0 °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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	55
2.	Jhelum	42
3.	Islamabad	35
4.	Narowal	20
5.	Murree	15
6.	Kamra	11
7.	Marala	08
8.	Sialkot	07
B	Khyber Pakhtunkhwa	
9.	Ghalanai	55
10.	Besham	16
11.	Kakul	15
12.	Bannu	10
C	AJ&K	
13.	Barnala	20
14.	Rawalakot	13
15.	Garhi Dopatta	07

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