



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
SATURDAY, AUGUST 17, 2024

At present, River Indus is experiencing “**Medium Flood**” in **Guddu-Sukkur** reach and “**Low Flood**” between **Tarbela-Taunsa** reach. Also, the Kabul River is flowing in “**Low Flood**” at **Nowshera**. All other major rivers of the Indus River System i.e. Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. Detailed information on the river flow situation and reservoir storage at 0600 hours today may be seen at **Annexure-I**.

2. The combined live storage of the country's major reservoirs (Tarbela, Chashma & Mangla) stands at **10.814 MAF** which is **80.98%** of the total available live storage capacity of **13.354 MAF**. Tarbela Reservoir is approaching its Maximum Conservation Level (MCL) and presently at **1549.00 feet** (just **1.00 feet** below the MCL of **1550.00 feet**). Tarbela Dam Management is advised to remain vigilant and regulate the reservoir according to approved SOPs and strictly in accordance with Dam Safety Guidelines.

3. According to the FFD, Lahore, cyclonic circulation over Northwestern Rajasthan (India) has intensified into a well-marked low-pressure system, now centered over Bahawalpur Division and neighboring areas of Sindh. Yesterdays' strong Westerly Wave continues to impact Northern Afghanistan. Moderate to strong moist air currents from the Arabian Sea are penetrating into Sindh, Southern Punjab and parts of Balochistan upto 10000 feet. Simultaneously, light to moderate moist currents are affecting Northern regions up to 5000 feet.

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, Faisalabad and Sahiwal Divisions)** and **Khyber Pakhtunkhwa** including the upper catchments of all major rivers of IRS. Widespread thunderstorm rain of **Moderate to Heavy** intensity with **Scattered Very Heavy** and **Isolated Extremely Heavy Falls** may occur over **Punjab (D.G. Khan, Multan & Bahawalpur Divisions)**, **Sindh and Balochistan (Zhob, Nasirabad, Sibbi, Kalat and Makran Divisions)** during the same period. As a result, **Medium to High Level Flash Flooding** is expected in the hill torrents of **D.G. Khan Division (Punjab)** and in the Nullahs of **Balochistan (Sibbi, Nasirabad, Zhob & Kalat Divisions) & Sindh {Larkana and Hyderabad (Dadu and Naushahro Feroze Districts) Divisions}**.

5. Punjab and AJ&K have experienced appreciable rains during the past 24 hours. Details are provided at **Annexure-II**.

6. The current wet spell in Southern Pakistan is expected to decrease after the next 48 hours. A fresh wet spell of moderate intensity with isolated heavy downpours is anticipated to begin on **20th August 2024**. This will impact **Islamabad, Punjab (Rawalpindi, Sargodha & D.G.Khan Divisions)** and **Khyber Pakhtunkhwa** including the upper catchments of rivers Indus, Jhelum and Kabul of IRS. Moderate intensity rainfall is also forecasted over **Punjab (Gujranwala & Lahore Divisions)** including over upper catchments of rivers Chenab, Ravi and Sutlej.

7. All concerned organizations are strictly advised to remain **Fully Alert** and **Vigilant** and to take prompt action in response to warnings issued by the relevant authorities (**especially in the context of flood generating hill torrents in the areas of forecast**) 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.

8. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over Pakistan and is keeping all concerned fully informed through FFD, Lahore.



17/08/2024

(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 17-08-2024

Rivers and Reservoir Positions
August 17, 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									
• Turbela Reservoir	1,500,000	604,000	30-7-2010	217,000	247,000	279,000	307,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	273,000	265,000	328,000	322,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	248,000	224,000	357,000	345,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	233,000	214,000	343,000	318,000	Low Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	214,000	183,000	390,000	386,000	Med Flood (S)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	182,000	127,000	382,000	363,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	173,000	133,000	210,000	174,000	Normal	650,000
River Kabul									
• Warsak	540,000				24,000		38,000	Normal	200,000
• Nowshera					37,000		65,000	Low Flood (R)	200,000
River Swat									
• Chakdara Bridge					12,000		8,000	Normal	150,000
• Munda (H. Works)					11,000		12,000	Normal	150,000
• Charsadda Road	150,000				11,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	28,000	10,000	35,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	9,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	69,000	49,000	69,000	47,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	58,000	50,000	81,000	73,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	52,000	42,000	85,000	67,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	57,000	43,000	48,000	38,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	70,000	55,000	58,000	52,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		26,000		27,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		29,000		28,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	47,000	27,000	39,000	13,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	31,000	13,000	33,000	24,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	51,000	37,000	16,000	9,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	33,000	32,000	8,000	7,000	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	1548.20	1550.00	1549.00	5.766	5.809	5.708	98.99 %
Chashma	649.00	638.15	639.00	649.00	638.60	0.311	0.278	0.007	2.25 %
Mangla	1242.00	1050.00	1172.90	1241.75	1212.80	7.277	7.336	5.099	70.07 %
Total Live Storage						13.354	13.423	10.814	80.98 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	31.6 °C	31.7 °C	+ 0.1 °C
Minimum	18.4 °C	18.3 °C	- 0.1 °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.	Multan	133
2.	Faisalabad	127
3.	Rahim Yar Khan	80
4.	Toba Tek Singh	78
5.	Khanewal & Bhandu Wala	67 each
6.	Hafizabad	65
7.	D.G.Khan	57
8.	Gujranwala	55
9.	Jhang	53
10.	Lahore	50
11.	Jhelum	46
12.	Sialkot	42
13.	Islamabad	40
14.	Sahiwal	39
15.	Noorpur Thal	32
16.	Chakwal	29
17.	Layyah (Kror)	35
18.	Sheikhupura & Khanpur	28 each
19.	Bahawalpur & Kot Addu	26 each
20.	Muzaffargarh	24
21.	Mandi Bahauddin	23
22.	Mangla	21
B	Sindh	
23.	Chhor	58
24.	Mirpur Khas	17
25.	Khairpur	13
26.	Mithi	10
C	Khyber Pakhtunkhwa	
27.	Domel	43
28.	D.I.Khan	33
29.	Tarbela	13
D	Balochistan	
30.	Chaman	15
F	AJ&K	
31.	Garhi Dopatta	42
32.	Kotli	41
33.	Dhulli	27
34.	Bandi Abbaspur	21
35.	Panjera	14
36.	Chakothe	11

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