



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission

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FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY, JULY 25, 2023

At present, **River Indus** is flowing in **Medium Flood** in **Chashma-Taunsa** reach and **Low Flood** at **Tarbela, Kalabagh** and **Guddu**. Similarly Rivers **Kabul, Ravi** and **Sutlej** are also experiencing **Low Flood** at **Nowshera, Balloki** and **Ganda Singh Wala & Suleimanki** respectively. Rest of the Rivers of IRS (Jhelum & Chenab) are discharging normal flows. For major River's discharges (inflows/ outflows) and storage position of country's major reservoirs, **Annexure-I** is referred. Present Combined Live Storage of major reservoirs (Tarbela, Chashma & Mangla) is **10.291 MAF** i.e. **76.55%** of the total value of **13.443 MAF**.

2. **Tarbela Reservoir** has attained water level of **1530 feet** i.e. **20 feet** below its Maximum Conservation Level (MCL) of **1550.00 feet** whereas **Mangla Reservoir** is at an elevation of **1218.70 feet (23.30 feet)** below its MCL of **1242.00 feet**. In view of higher water levels, Tarbela Dam Management and Flood Mitigation Committee (FMC) of Mangla Dam are advised to remain vigilant and ensure filling of reservoirs as per approved SOPs and dam safety guidelines.

3. According to FFD, Lahore, a trough containing residue of yesterday's **Monsoon Low** prevails over Sindh while a fresh trough of Westerly Wave lies over Northern parts of Afghanistan. Seasonal Low continues to prevail over Northern Balochistan. At present, **Moderate to Strong moist currents & light to moderate currents** both from Bay of Bengal and Arabian Sea are penetrating into lower half and upper half of Pakistan up to 5000 feet respectively.

4. **For the ensuing 24 hours, FFD, Lahore** has predicted, **Scattered to Widespread Wind Thunderstorm/Rain** of **Moderate Intensity** with **Heavy Falls** at **isolated places** over **Punjab (D.G. Khan Division), Southern & Southeastern Sindh, Khyber Pakhtunkhwa (D.I. Khan, Bannu & Kohat Divisions)** and **Balochistan (Zhob, Loralai, Kalat, Sibbi, Makran & Nasirabad Divisions)**. During the same period, **Scattered Wind Thunderstorm Rain** of **Moderate Intensity** with **Isolated Heavy Falls** may occur over **Peshawar Division, rest of Punjab** and **Sindh** including upper catchments of all the major rivers of IRS.

5. As a result of above meteorological conditions, **Flash flooding** of **Moderate to heavy intensity** is expected in the **Nullahs of Balochistan (Loralai, Kalat, Sibbi, Makran & Nasirabad Divisions)** and **Hill Torrents of D.G. Khan Division** during the next 24 hours. Substantial rainfall events have been experienced all over the country during the past 24 hours, which may be seen at **Annexure-II**.

6. **Next 48 Hours and Week ahead (26th July to 1st August 2023) Forecast:**

Current wet spell is likely to continue over most parts of country and subside over Sindh during the next 48 hours however, there is a likelihood of **Flash flooding** in the Tributaries of **River Kabul** during the same period.

- Monsoon activity over the upper catchments of all the major rivers may subside upto **26th July 2023 (Morning)**.
- **Scattered to widespread thunderstorm/rain** with **isolated heavy to very heavy falls** are expected over the upper catchments of rivers **Indus & Kabul** from **27th July 2023**.
- **Scattered thunderstorm/rain** of **moderate intensity** with **isolated heavy falls** are expected over the upper catchments of rivers **Jhelum, Chenab, Ravi & Sutlej** from **27th to 30th July 2023**.

7. All concerned organizations are advised to remain **Alert & Vigilant**, take prompt actions on warnings issued, to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.

8. Round-the-Clock monitoring of current weather situation is being done by FFD, Lahore.

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.


(Ahmed Kamal)
Chief Engineering Adviser/
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Distribution:

3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad.
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
28. Commissioner, Rawalpindi.
29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
30. Secretary, Irrigation Department, Government of Sindh, Karachi
31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
39. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
40. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2023, dated 25-07-2023

Rivers and Reservoir Positions July 25, 2023 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	243,000	137,000	319,000	263,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	150,000	146,000	368,000	360,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	213,000	206,000	405,000	401,000	Med Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	273,000	266,000	395,000	395,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	216,000	197,000	237,000	229,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	179,000	159,000	185,000	181,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	98,000	93,000	64,000	40,000	Normal	650,000
River Kabul									
• Warsak	540,000				57,000		39,000	Normal	200,000
• Nowshera					95,000		71,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					22,000		14,000	Normal	150,000
• Munda(H. Works)					18,000		19,000	Normal	150,000
• Charsadda Road	150,000				16,000		17,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	34,000	13,000	71,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	5,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	86,000	77,000	94,000	79,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	66,000	60,000	88,000	81,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	72,000	53,000	83,000	73,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	85,000	78,000	114,000	105,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	38,000	32,000	64,000	55,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		13,000		38,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		20,000		36,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	41,000	23,000	66,000	41,000	Low Flood (F)	135,000
• Sidhnaï	150,000	330,210	02-10-1988	22,000	22,000	32,000	22,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 19.90	69,000	Low Flood (R)	
• Suleimanki	325,000	598,872	08-10-1955	22,000	16,000	72,000	63,000	Low Flood (R)	175,000
• Islam	332,000	492,581	11-10-1955	12,000	12,000	28,000	27,000	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1492.36	1511.23	1530.00	5.809	3.741	4.684	80.63 %
Chashma	649.00	638.15	648.20	642.00	639.50	0.278	0.058	0.017	6.12 %
Mangla	1242.00	1050.00	1179.00	1138.10	1218.70	7.356	1.336	5.590	75.99 %
Total Live Storage						13.443	5.135	10.291	76.55 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+/-)
Maximum	32.6 °C	24.1 °C	- 8.5 °C
Minimum	17.3 °C	12.3 °C	- 5.0 °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.	Okara	143
2.	Kasur	106
3.	Multan	77
4.	Lahore	67
5.	Islamabad	62
6.	DG Khan	60
7.	Gujranwala	42
8.	Sargodha	29
9.	Bahawalpur	19
10.	Murree	16
B Sindh		
11.	Karachi	100
12.	Sukkur & Thatta	90 each
13.	Tando Jam	82
14.	Hyderabad	69
15.	Khairpur	63
16.	Rohri	53
17.	Larkana	51
18.	Jacobabad	40
19.	Badin	39
20.	Moin-Jo-Daro	31
21.	Padidan	19
22.	Dadu	18
C Khyber Pakhtunkhwa		
23.	Bannu	78
24.	Peshawar	36
25.	Kakul	15
D Balochistan		
26.	Zhob	24
27.	Chaman	13
E Gilgit-Baltistan		
28.	Astore	18
F AJ & K		
29.	Palandri	43
30.	Muzaffarabad	30
31.	Chattar Kallas	21
32.	Domel & Rawalakot	13 each

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