



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
MONDAY, JULY 31, 2023

Both inflows and outflows from Tarbela Dam have decreased compared to last 24 hours at the reporting time (inflows: 248,000 cusecs against yesterday's 262,000 cusecs, Outflows: 159,000 cusecs against yesterday's 257,000 cusecs). Resultantly, discharge in river Indus at all structures downstream Chashma has decreased.

2. Presently, **River Indus** is flowing in **Medium Flood** in **Guddu-Sukkur reach**, and in **Low Flood** in **Kalabagh-Chashma-Taunsa** reaches. With regards to flows of other major rivers of Indus River System: Rivers **Ravi** at **Head Balloki & Sidhnai** and **Sutlej** at **Suleimanki** are passing **Low Flood** discharges. Rivers **Jhelum & Chenab** are discharging normal flows. **Annexure-I**, depicts major rivers discharges (Inflows/ Outflows) including reservoir storage position of major reservoirs.

3. **Tarbela Reservoir** has attained water level of **1536.15 feet (13.85 feet less than its Maximum Conservation Level (MCL) of 1550 feet)** whereas, **Mangla Reservoir** is at an elevation of **1228.20 feet (13.8 feet below its MCL of 1242.00 feet)**. **As the two reservoirs are approaching their MCL, Tarbela Dam Management and Flood Mitigation Committee (FMC) of Mangla Dam are advised to exercise maximum care and vigilance in dam/ reservoir operation strictly in accordance with approved SOPs and dam safety guidelines.**


4. As per FFD, Lahore, Arabian Sea **Seasonal Low** continues to prevail over Northwestern Balochistan with its mild moist currents are penetrating into upper parts of Pakistan upto 3000 feet.

5. Mainly dry weather is expected over most parts of country during next 24 hours. Nevertheless, **isolated wind thunderstorm/ rain of light to moderate intensity** is expected over **Islamabad, Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore & D.G Khan Divisions), Khyber Pakhtunkhwa (D.I. Khan Division), Northeastern Balochistan** including upper catchments of all the major rivers of IRS during the same period. No noticeable rainfall events have been noted during past 24 hours.

6. A fresh wet spell of **Moderate Intensity** with **Heavy Falls at scattered places** is expected over upper catchments of all the major rivers **except river Indus** during the period **5th to 7th August 2023**, besides, Rainfall of Light to Moderate Intensity over upper catchments of rivers Indus & Kabul.

7. All concerned organizations particularly Tarbela and Mangla dam management organizations are advised to remain **Alert & Vigilant**. Further prompt actions on warnings issued be ensured including safety of communities living in low lying areas, the public & private property, irrigation, drainage, flood protection & river training infrastructure etc.

8. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) through FFD, Lahore and is keeping all concerned organizations fully cognizant of the situation.


(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

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

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4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
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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.
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21. Chief Secretary, Government of Sindh, Karachi.
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26. Secretary, Irrigation Department, Government of the Punjab, Lahore.
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29. Secretary, Irrigation Department, Government of Balochistan, Quetta.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
32. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
33. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
34. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
35. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
36. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
37. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
38. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
39. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
40. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
41. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
42. Chief Commissioner, ICT, Islamabad.
43. Chairman, Capital Development Authority, Islamabad.
44. Commissioner, Rawalpindi.
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 31-07-2023

Rivers and Reservoir Positions July 31, 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	303,000	252,000	248,000	159,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	272,000	268,000	296,000	288,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	364,000	356,000	345,000	339,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	299,000	293,000	363,000	363,000	Low Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	312,000	286,000	482,000	461,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	262,000	222,000	435,000	401,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	141,000	115,000	169,000	133,000	Normal	650,000
River Kabul									
• Warsak	540,000				41,000		29,000	Normal	200,000
• Nowshera					99,000		57,000	Normal	200,000
River Swat									
• Chakdara Bridge					17,000		13,000	Normal	150,000
• Munda(H. Works)					18,000		15,000	Normal	150,000
• Charsadda Road	150,000				16,000		14,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	52,000	11,000	54,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	14,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	94,000	77,000	69,000	54,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	80,000	73,000	73,000	66,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	86,000	67,000	70,000	60,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	111,000	103,000	91,000	85,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	97,000	92,000	105,000	94,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		15,000		36,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		32,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	45,000	27,000	71,000	50,000	Low Flood (F)	135,000
• Sidhna	150,000	330,210	02-10-1988	19,000	16,000	48,000	37,000	Low Flood (R)	90,000
River Sutlej									
• G.S. Wala						Gauge 19.00	56,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	13,000	8,000	71,000	66,000	Low Flood (F)	175,000
• Islam	332,000	492,581	11-10-1955	8,000	7,000	49,607	49,607	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	1517.36	1529.00	1536.15	5.809	4.654	5.022	86.45 %
Chashma	649.00	638.15	639.50	639.00	639.30	0.278	0.010	0.014	05.04 %
Mangla	1242.00	1050.00	1189.15	1151.20	1228.20	7.356	1.824	6.285	85.44 %
Total Live Storage						13.443	6.488	11.321	84.21 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	30.0 °C	26.3 °C	- 3.7 °C
Minimum	16.5 °C	13.3 °C	- 3.2 °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.