



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
WEDNESDAY, AUGUST 16, 2023

Among major rivers of Indus River System (IRS) only **River Indus** is flowing in Mild Category Flood (**Low Flood**) at its three (03) control structures **upstream Taunsa (Tarbela, Kalabagh & Chashma)**. Rest of major rivers of IRS are discharging normal flows. Detailed discharges (inflows/outflows) of major rivers at specified control structures and major reservoirs storage position are presented in **Annexure-I**.

2. **Tarbela reservoir** after attaining the Maximum Conservation Level of **1550 feet** on **11th August 2023** is presently at **1549.28 feet** owing to some drawdown. Low inflows have been observed in River Indus at Tarbela upstream as compared to corresponding period of last year. This may be seen at **Column-5 & 7, Annexure-I**.

3. **Mangla reservoir** has attained **99.23%** of its maximum live storage capacity (**7.299 MAF Vs 7.356 MAF**). Managements of both Tarbela and Mangla reservoirs are exercising efficient reservoir operations in accordance with the respective SOPs and dam safety guidelines.

4. Yesterday's trough of Westerly Wave over Kashmir and adjoining areas has moved away Eastwards (away from Pakistan). Arabian Sea Seasonal Low lies over Northeastern Balochistan and is generating mild moist currents which are penetrating into upper parts of Pakistan up to 3000 feet.

5. For the next 24 hours, FFD, Lahore has predicted **Isolated Thunderstorm/Rain** of **Light to Moderate Intensity** with gusty winds over **Islamabad and Rawalpindi, Sargodha, Gujranwala & Lahore Divisions of Punjab** including upper catchments of all the major rivers of IRS. No noticeable rainfall events have been observed during the past 24 hour.

6. In view of the latest prevailing Hydro-meteorological conditions River Sutlej may attain **Medium to High Level Flood** at **Ganda Singh Wala & downstream** after **next 24 hours** (Source: FFD, Lahore).

7. **Considering the present live storage of Indian reservoirs on Eastern Rivers, particularly Bhakra on River Sutlej and Pong on River Beas and keeping in view the prevailing hydro-meteorological condition O/o PCIW is advised to exercise extra vigilance and round-the-clock monitoring of outflows from the above reservoirs by the upper riparian (India) so that timely Significant Flood Forecast and subsequent Early Warning is issued by FFD, Lahore to all the relevant provincial and district authorities for all required precautionary and response measures.**

8. Further to above, all other concerned organizations especially **Irrigation Department** and **PDMA Punjab** are advised to remain **Alert** and **Vigilant**. Irrigation Department Punjab to ensure safety and maintenance of flood protection infrastructure on eastern rivers.

9. Pakistan Meteorological Department (PMD) is monitoring the prevailing weather system on Round-the-Clock basis and keeping all concerned informed through FFD, Lahore.

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

Distribution:

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

Distribution:

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. Secretary, Irrigation Department, Government of the Punjab, Lahore.
27. Secretary, Irrigation Department, Government of Sindh, Karachi
28. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
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 16-08-2023

Rivers and Reservoir Positions August 16, 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	296,000	218,000	233,000	252,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	235,000	229,000	275,000	267,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	278,000	261,000	282,000	261,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	291,000	291,000	236,000	217,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	296,000	293,000	215,000	183,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	250,000	228,000	187,000	131,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	213,000	203,000	173,000	133,000	Normal	650,000
River Kabul					39,000				
• Warsak	540,000				56,000		28,000	Normal	200,000
• Nowshera							42,000	Normal	200,000
River Swat									
• Chakdara Bridge					16,000		12,000	Normal	150,000
• Munda(H. Works)					10,000		12,000	Normal	150,000
• Charsadda Road	150,000				10,000		12,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	40,000	10,000	36,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	12,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	156,000	144,000	74,000	54,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	173,000	167,000	69,000	61,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	182,000	166,000	64,000	54,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	106,000	97,000	55,000	42,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	47,000	38,000	70,000	55,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		31,000		30,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		9,000		36,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	6,000	44,000	24,000	Normal	135,000
• Sidhmai	150,000	330,210	02-10-1988	21,000	9,000	30,000	12,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 19.30	60,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	14,000	3,000	46,000	32,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	2,000	1,000	34,000	32,000	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	1544.87	1547.20	1549.28	5.809	5.666	5.768	99.29 %
Chashma	649.00	638.15	647.40	640.30	647.00	0.278	0.029	0.188	67.63 %
Mangla	1242.00	1050.00	1202.95	1171.95	1241.30	7.356	2.762	7.299	99.23 %
Total Live Storage						13.443	8.457	13.255	98.60 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	29.4 °C	29.6 °C	0.2 °C
Minimum	18.4 °C	14.1 °C	- 4.3 °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.