



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
SATURDAY, AUGUST 19, 2023

River Sutlej at Ganda Singh Wala (1st water measuring station in Pakistan on River Sutlej) is flowing in **Exp. High Flood since yesterday (1600 hours)** due to increasing outflows from **Pong Dam (River Beas)** and **Bhakra Dam (River Sutlej)** by India. It is in **Low Flood** with rising trend at **Sulemanki**. All other rivers of IRS (Jhelum, Chenab, Kabul & Ravi) are discharging normal flows except for **River Indus at Guddu Barrage** where it is in **Low Flood** (Ref: **Annexure-I**).

2. **Mangla Reservoir** is being operated at its **Maximum Conservation Level (MCL) of 1242 feet** since **August 17, 2023** at 1800 Hours. **Tarbela Reservoir** achieved its **MCL of 1550 feet** on **August 17, 2023 at 0600 Hours** and since then it has been operated close to its MCL. **Presently, Tarbela Reservoir** is just below i.e **0.58 feet** against its **MCL of 1550 feet**. Accordingly, Timely dissemination of flood warnings, in case of any abnormal outflows, to the concerned District Administrations and local population in the downstream areas may also be ensured by the concerned departments.

3. A **Low-Pressure Area** over Northwest Bay of Bengal (India) today lies over South Jharkhand (India) whereas yesterday's trough of Westerly Wave over North of Iran today lies over Northeast of Iran. Seasonal Low continues to prevail over Northeastern Balochistan and is a source of light to moderate moist currents from Arabian Sea and Bay of Bengal which are penetrating into upper parts of Pakistan upto 4,000 feet.


4. For the ensuing 24 hours, FFD, Lahore has predicted **Scattered Wind Thunderstorm/Rain of Light to Moderate Intensity** with **Isolated Heavy Falls** over **Islamabad, Rawalpindi, Sargodha, Gujranwala & Lahore Divisions** of **Punjab** including over upper catchments of all the major rivers of IRS. Besides, during the period from **20th to 26th August 2023**, **Moderate monsoon** activity with **isolated heavy falls** are expected over the upper catchments of rivers **Indus, Jhelum, Chenab, Ravi & Sutlej**. No significant rainfall event has been observed during the past 24 hour except for Kohat in Khyber Pakhtunkhwa with 25 mm.

5. According to latest Hydro-meteorological conditions, **River Sutlej at Ganda Singh Wala** is likely to remain in **Exceptionally High Flood Level** (subject to the releases from India). Moreover, **River Sutlej at Suleimanki** may attain **High to Very High Flood Level** within next 24 hours and **High Flood Level** at **Islam** from **22nd August 2023** (Source: FFD, Lahore).

6. O/o PCIW is maintaining extra vigilance and round-the-clock monitoring of trans-boundary outflows/water releases by India from **Pong** and **Bhakra reservoirs**.

7. All concerned organizations especially Punjab Irrigation Department and PDMA Punjab are advised to remain **High Alert** and take all necessary precautionary measures as per their Contingency/Flood Fighting Plans prepared to ensure safety of human life and other properties. **Punjab Irrigation Department** to also ensure safety of the flood protection bunds along River Sutlej and carry out flood fighting activity, if so needed, at the vulnerable locations.

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


for **(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.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.

Distribution:

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 19-08-2023

Rivers and Reservoir Positions August 19, 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	301,000	256,000	200,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	281,000	277,000	219,000	211,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	388,000	373,000	257,000	236,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	461,000	461,000	228,000	209,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	346,000	346,000	258,000	226,000	Low Flood (S)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	344,000	344,000	215,000	161,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	199,000	199,000	168,000	128,000	Normal	650,000
River Kabul									
• Warsak	540,000				39,000		27,000	Normal	200,000
• Nowshera					79,000		33,000	Normal	200,000
River Swat									
• Chakdara Bridge					17,000		11,000	Normal	150,000
• Munda (H. Works)					15,000		10,000	Normal	150,000
• Charsadda Road	150,000				15,000		9,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	28,000	7,000	23,000	22,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	6,000	NIL	19,000	16,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	72,000	54,000	67,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	65,000	59,000	50,000	42,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	76,000	60,000	42,000	32,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	130,000	122,000	81,000	68,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	96,000	90,000	71,000	55,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		11,000		24,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		11,000		29,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	49,000	23,000	39,000	31,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	5,000	37,000	19,000	Normal	90,000
River Sutlej									
• G.S. Wala	325,000	598,872	08-10-1955	17,000	7,000	80,000	278,297	Exp. High Flood (R)	175,000
• Suleimanki	332,000	492,581	11-10-1955	3,000	2,000	32,000	66,000	Low Flood (R)	175,000
• Islam							30,000	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	1543.40	1549.20	1549.42	5.809	5.781	5.776	99.43 %
Chashma	649.00	638.15	645.70	640.00	649.00	0.278	0.024	0.278	100 %
Mangla	1242.00	1050.00	1202.90	1174.75	1242.00	7.356	2.905	7.356	100 %
Total Live Storage						13.443	8.710	13.410	99.75 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	25.5 °C	33.6 °C	8.1 °C
Minimum	15.3 °C	16.2 °C	0.9 °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.