



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
FRIDAY, AUGUST 18, 2023

Owing to release of water from **Pong Dam (River Beas)** and **Bhakra Dam (River Sutlej)** by India, **River Sutlej** at 0600 hours today was flowing in **Medium Flood** at **Ganda Singh Wala** (1st water measuring station in Pakistan on river Sutlej). Also **River Indus** is in **Low Flood** at **Guddu Barrage**. Other rivers of IRS (Jhelum, Chenab & Ravi) are discharging normal flows. Inflows/outflows of major rivers at specified control structures including major reservoirs storage position may be seen at **Annexure-I**.

2. By the Grace of Almighty Allah and good reservoir management by the Dam Management, **Mangla reservoir** has attained its Maximum Conservation Level of **1242 feet**. Present water level of **Tarbela reservoir** is **1549.60 feet**. Both Tarbela and Mangla Dam Management including Mangla Flood Mitigation Committee (FMC) are advised to remain vigilant and take utmost care in reservoirs operation in accordance with the respective SOPs and Dam Safety Guidelines. 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. As regards meteorological conditions, a **Low-Pressure Area** has developed over Northwest Bay of Bengal (India) with a fresh trough of Westerly Wave prevailing over Northern parts of Iran. Seasonal Low continues to prevail over Northeastern Balochistan and is a source of light to moderate moist currents from Arabian Sea which are penetrating into upper parts of Pakistan upto 5000 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. Few rainfall events have been observed during the past 24 hour in Punjab, Khyber Pakhtunkhwa and AJ&K. Details may be seen at **Annexure-II**.

5. According to latest Hydro-meteorological conditions, **River Sutlej** at **Ganda Singh Wala** is likely to remain in **Very High Flood Level** (subject to the releases from India). Moreover, **River Sutlej** at **Suleimanki** may attain **High to Very High Flood Level** after 24 hours and **High Flood Level** at **Islam** from **21st August 2023** (Source: FFD, Lahore).

6. During the period from **22nd to 25th August 2023**, **Moderate monsoon** activity with **isolated heavy falls** are expected over the upper catchments of rivers **Jhelum, Chenab, Ravi & Sutlej** besides, **Light to Moderate rainfall** over upper catchments of rivers **Indus & Kabul**.


7. In view of water releases by India from **Pong** and **Bhakra reservoirs**, O/o PCIW is maintaining extra vigilance and round-the-clock monitoring of outflows from the above reservoirs.

8. All concerned organizations especially **Irrigation Department** and **PDMA Punjab** are advised to remain **High Alert** and **Vigilant**. **Irrigation Department Punjab** is also advised to take all necessary precautionary measures as per the Contingency Plan and ensure round-the-clock patrolling of river embankments and training works (especially on River Sutlej considering the Very High Flood forecast at Ganda Singh Wala and Suleimanki) including irrigation & drainage network.

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

Distribution:

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


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

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 18-08-2023

Rivers and Reservoir Positions August 18, 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	302,000	284,000	208,000	146,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	271,000	266,000	257,000	249,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	383,000	368,000	252,000	231,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	439,000	439,000	240,000	221,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	330,000	330,000	255,000	226,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	326,000	322,000	186,000	133,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	177,000	177,000	168,000	128,000	Normal	650,000
River Kabul									
• Warsak	540,000				42,000		27,000	Normal	200,000
• Nowshera					83,000		35,000	Normal	200,000
River Swat									
• Chakdara Bridge					16,000		11,000	Normal	150,000
• Munda(H. Works)					21,000		11,000	Normal	150,000
• Charsadda Road	150,000				21,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	35,000	9,000	24,000	25,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	6,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	94,000	82,000	64,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	94,000	87,000	57,000	49,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	99,000	83,000	46,000	36,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	116,000	108,000	73,000	60,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	94,000	87,000	71,000	55,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		23,000		27,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		28,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	51,000	25,000	47,000	29,000	Normal	135,000
• Sidhnaï	150,000	330,210	02-10-1988	18,000	11,000	32,000	14,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 21.50	150,000	Med Flood (R)	
• Suleimanki	325,000	598,872	08-10-1955	15,000	7,000	63,635	49,918	Normal	175,000
• Islam	332,000	492,581	11-10-1955	2,000	1,000	32,000	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	1544.70	1548.70	1549.60	5.809	5.752	5.786	99.60 %
Chashma	649.00	638.15	646.50	640.50	649.00	0.278	0.032	0.278	100 %
Mangla	1242.00	1050.00	1203.20	1173.90	1242.00	7.356	2.862	7.356	100 %
Total Live Storage						13.443	8.646	13.420	99.83 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	25.4 °C	32.7 °C	7.3 °C
Minimum	16.4 °C	17.3 °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.

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Islamabad	59
2.	Kallar	13
3.	Mangla	08
4.	Murree	05
B	Khyber Pakhtunkhwa	
5.	Tarbela	15
6.	Parachinar	12
7.	Buner	07
8.	Khaar-Bajaur	06
9.	Pashat-Bajaur	05
C	AJ&K	
10.	Palandri	13
11.	Bandi Abbaspur	10

Source: FFD, Lahore (042-99200139)