



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, AUGUST 21, 2023

River Sutlej at Ganda Singh Wala experienced **EXCEPTIONAL HIGH FLOOD** flows due to simultaneous releases of high discharges by India from the dams on **Eastern Rivers** i.e. **Pong on River Beas and Bhakra on River Sutlej**. A peak discharge of **278,279 cusecs** was observed at **Ganda Singh Wala** on **August 19, 2023**, however at present floods flows are gradually receding and today at 0600 hours it was **174,062 cusecs (High Flood)**. Also **River Sutlej at Head Suleimanki** has been experiencing **High Flood** since **20th August 2023 (0700 hour)** with rising trend.

2. Further to above, **River Indus** is flowing in Mild Category Flood (**Low Flood**) at **Guddu Barrage**, whereas all other rivers of Indus River System i.e. **Jhelum, Chenab & Ravi** are flowing with Normal Flow Conditions. Discharges of major rivers of IRS including major reservoirs storage position, is presented in **Annexure-I**.

3. **Mangla Reservoir** has been maintaining to its **Maximum Conservation Level (MCL) of 1242 feet** since **August 17, 2023**. Today **Tarbela Reservoir** is at **1549.10 feet** which is **0.90 feet** below its **MCL of 1550 feet**. Considering the present storages in both the reservoirs, **Tarbela and Mangla Dam Managements** including **Flood Mitigation Committee (FMC)** of **Mangla** are advised to remain **Vigilant and Alert** and take utmost care in reservoirs operation in accordance with the respective SOPs and Dam Safety Guidelines. Also timely dissemination of flood warnings, in case of any abnormal outflows, to the concerned District Administrations and local population in the downstream areas may be ensured by the concerned departments.

4. According to FFD, Lahore, yesterday's **Low-Pressure Area** over central Madhya Pradesh (India) has remained stationary. Trough of Westerly Wave continues to prevail over Northeastern Iran with Seasonal low persisting over Northeastern Balochistan. At present, light to moderate moist currents from both Bay of Bengal and Arabian Sea are penetrating into upper parts of Pakistan up to 5000 feet and 3000 feet respectively.

5. **Scattered wind thunderstorm/rain** of **light to moderate intensity** with **isolated heavy falls** are expected over **Islamabad and Rawalpindi, Sargodha, Gujranwala & Lahore Divisions of Punjab** including over upper catchments of all the major rivers of IRS during next 24 hours. No rainfall events have been observed during the past 24 hour except 12 mm for Kotli (AJ&K).


6. For the next **72 hours (From 22nd August 2023, Evening)**, **scattered to widespread wind thunderstorm/rain** of **moderate intensity** with **isolated heavy falls** are expected over **Islamabad, Punjab (Rawalpindi, Gujranwala, Sargodha & Lahore Divisions)** including over upper catchments of rivers **Jhelum, Chenab, Ravi, & Sutlej**. For the same period, **scattered wind thunderstorm/rain** of **moderate intensity** with **isolated heavy falls** may also occur over **Peshawar, Kohat, Bannu, & D.I. Khan Divisions** of **Khyber Pakhtunkhwa**, besides over upper catchments of rivers **Indus and Kabul**.

7. According to latest Hydro-meteorological conditions, FFD, Lahore has predicted as follows:

- **Very High Flood Level** in **River Sutlej at Suleimanki** during **next 24 hours**.
- **Medium to High flood level** in **River Sutlej at Head Islam** after **22nd August 2023**.
- **Sharp Peak of Medium to High level floods** in **River Jhelum Mangla (upstream)** during **23rd to 25th August 2023**.

8. In view of **High Flood Situation** at **Ganda Singh Wala** and **Head Suleimanki**, all concerned organizations especially **Punjab Irrigation Department** and **PDMA Punjab** are advised to remain **High Alert** and ensure fool proof precautionary measures as per their Contingency/Flood Fighting Plans prepared to ensure safety of human life and other properties including irrigation, drainage and flood protection infrastructures.

9. Round-the-Clock monitoring of prevailing weather conditions 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 Adviser/
Chairman, Federal Flood Commission

Distribution:

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

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. 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 21-08-2023

Rivers and Reservoir Positions August 21, 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	264,000	269,000	207,000	151,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	263,000	259,000	207,000	199,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	318,000	300,000	254,000	233,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	490,000	490,000	228,000	209,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	403,000	403,000	258,000	225,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	369,000	369,000	216,000	161,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	234,000	234,000	162,000	122,000	Normal	650,000
River Kabul									
• Warsak	540,000				76,000		25,000	Normal	200,000
• Nowshera					60,000		33,000	Normal	200,000
River Swat									
• Chakdara Bridge					22,000		10,000	Normal	150,000
• Munda(H. Works)					21,000		8,000	Normal	150,000
• Charsadda Road	150,000				21,000		8,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	48,000	8,000	22,000	23,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	7,000	NIL	15,000	12,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	111,000	87,000	61,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	76,000	70,000	49,000	40,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	67,000	51,000	40,000	30,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	88,000	77,000	67,000	56,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	84,000	78,000	71,000	55,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		17,000		20,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		16,000		30,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	5,000	37,000	29,000	Normal	135,000
• Sidhnaï	150,000	330,210	02-10-1988	24,000	14,000	39,000	21,000	Normal	90,000
River Sutlej									
• G.S. Wala							174,062	High Flood (F)	
• Suleimanki	325,000	598,872	08-10-1955	18,000	7,000	146,000	146,000	High Flood (R)	175,000
• Islam	332,000	492,581	11-10-1955	4,000	3,000	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	1542.11	1550.00	1549.10	5.809	5.827	5.757	99.10 %
Chashma	649.00	638.15	648.40	642.00	649.00	0.278	0.058	0.278	100 %
Mangla	1242.00	1050.00	1202.30	1176.15	1242.00	7.356	2.976	7.356	100 %
Total Live Storage						13.443	8.861	13.391	99.61 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	34.6 °C	34.3 °C	- 0.3 °C
Minimum	16.4 °C	16.3 °C	- 0.1 °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.