



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
TUESDAY, AUGUST 22, 2023

VERY HIGH FLOOD (VHF) in **River Sutlej** at **Head Suleimanki (191,000 Cusecs at reporting time)** has been recorded after **28 years**. On **10th September 1995** peak discharge of **301,865 cusec** was observed in **River Sutlej** at **Head Suleimanki**. Also it is in **High Flood** at **Ganda Singh Wala**, however the flood flows are gradually receding at **Ganda Singh Wala** (i.e. from **278,279 cusecs** on **19th August 2023** to **129,885 cusecs** today). Among other major rivers of IRS, **River Indus** is flowing in **Low Flood** at **Tarbela & Guddu** while Rivers Jhelum, Chenab and Ravi are discharging normal flows (**Annexure-I**).

2. In line with the indent requirements drawdown have been made both in Tarbela and Mangla Dams. At present water level in **Mangla reservoir** is **1241.90 feet** Vs **MCL of 1242 feet** and is **1549.30 feet** Vs **MCL of 1550 feet** in **Tarbela Dam**.

3. Considering the Weather Prediction of FFD, Lahore for the upper catchments of Rivers Indus and Jhelum, both Tarbela and Mangla Dam Management including Flood Mitigation Committee (FMC) of Mangla Dam 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 would ensure by the respective department.

4. Yesterday's **Low-Pressure Area** over Central Madhya Pradesh (India) has become insignificant for Pakistan. Trough of Westerly Wave today lies over Northern parts of Afghanistan with Seasonal Low persisting over Northeastern Balochistan. As a consequence, light to moderate moist currents from Arabian Sea are penetrating into upper parts of Pakistan up to 5000 feet.

5. **Weather/ Rain Forecast: Next 24-48 hours:**

- **Scattered Wind Thunderstorm/Rain of Moderate Intensity** with **Isolated Heavy Falls** are expected over **Islamabad** and **Punjab (Rawalpindi & Gujranwala Divisions)** including over the upper catchments of all the major rivers of IRS during the next 24 hours. For the same period, **Isolated Wind Thunderstorm/Rain of Moderate Intensity** may occur over **Sargodha & Lahore Divisions** of **Punjab** and **Peshawar, Kohat & Bannu Divisions** of **Khyber Pakhtunkhwa**.
- For the ensuing 48 hours, **Scattered to widespread wind thunderstorm/rain of moderate intensity** with **isolated heavy falls** are expected over **Islamabad** and **Rawalpindi, Gujranwala, Sargodha & Lahore Divisions** of **Punjab** including over upper catchments of all the major rivers of IRS, besides, **Scattered wind thunderstorm/rain of moderate intensity** with **isolated heavy falls** over **Peshawar, Kohat, Bannu, D.I. Khan Divisions** of **Khyber Pakhtunkhwa** and **Sargodha Division** of **Punjab**. (Source: FFD, Lahore)

6. No noticeable rainfall events have been observed during the past 24 hour except 31 mm for Lower Dir (Khyber Pakhtunkhwa).

7. **Flood Forecast: August 22-25, 2023:**

- Flows in **River Sutlej** at **Ganda Singh Wala & Suleimanki** are likely to decrease.
- **Medium to High Flood Level** in **River Sutlej** at **Head Islam** during the next **24-48 hours**.
- Sharp peaks of **Medium to High Level Floods** in **River Jhelum** at **Mangla (upstream)** during **23rd to 25th August 2023**.

8. In view of **Very High Flood Situation** in river **Sutlej** at **Head Suleimanki**, all concerned organizations especially **Punjab Irrigation Department** and **PDMA Punjab** are advised to remain on **High Alert** and ensure fool proof measures as per their Contingency/ Flood Fighting Plans for the safety of human life, properties etc. 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 22-08-2023

Rivers and Reservoir Positions August 22, 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	257,000	241,000	215,000	252,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	269,000	264,000	206,000	198,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	341,000	323,000	256,000	235,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	551,000	551,000	212,000	193,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	483,000	483,000	255,000	226,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	418,000	418,000	210,000	156,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	247,000	247,000	154,000	113,000	Normal	650,000
River Kabul									
• Warsak	540,000				64,000		37,000	Normal	200,000
• Nowshera					117,000		40,000	Normal	200,000
River Swat									
• Chakdara Bridge					17,000		10,000	Normal	150,000
• Munda(H. Works)					15,000		8,000	Normal	150,000
• Charsadda Road	150,000				13,000		8,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	38,000	10,000	21,000	22,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	7,000	NIL	19,000	16,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	68,000	44,000	77,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	66,000	59,000	48,000	39,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	76,000	60,000	39,000	29,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	74,000	63,000	58,000	47,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	97,000	91,000	77,000	61,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		24,000		13,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		24,000		27,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	36,000	8,000	37,000	29,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	23,000	12,000	35,000	17,000	Normal	90,000
River Sutlej									
• G.S. Wala							129,885	High Flood (F)	
• Suleimanki	325,000	598,872	08-10-1955	16,000	5,000	191,000	191,000	Very High Flood (R)	175,000
• Islam	332,000	492,581	11-10-1955	4,000	3,000	48,000	46,000	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	1542.95	1550.00	1549.30	5.809	5.827	5.769	99.31 %
Chashma	649.00	638.15	648.50	642.00	649.00	0.278	0.058	0.278	100 %
Mangla	1242.00	1050.00	1202.05	1177.15	1241.90	7.356	3.027	7.348	99.89 %
Total Live Storage						13.443	8.912	13.395	99.64 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	30.8 °C	34.2 °C	3.4 °C
Minimum	17.3 °C	16.1 °C	- 1.2 °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.