



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

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**DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY AUGUST 19, 2021**

The country is experiencing dry monsoon at present with very little rainfall activity since last 3-4 days. All main rivers of the Indus River System (i.e. Rivers Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing with "Normal Discharges". Continuous low temperature upstream Tarbela in Northern Areas (Skardu) has further reduced the inflows in Tarbela reservoir (**Annexure-I**). IRSA and Tarbela Dam Management authorities are advised to ensure judicious releases in line with the approved SOPs in order to get maximum storage. As of today, combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **10.168 MAF (75.22%** of the total Combined Live Storage Capacity of **13.516 MAF**).

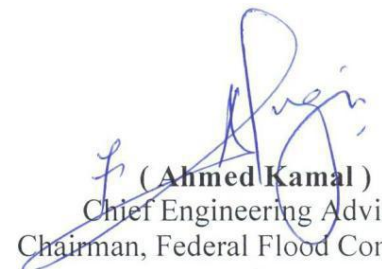
2. Monsoon currents of moderate intensity from Arabian Sea and Bay of Bengal are penetrating into upper parts of the country up to 5000 feet and 3000 feet respectively. Yesterday's trough of Westerly Wave over Northeastern parts of Iran today lies over Northern parts of Afghanistan whereas weak Seasonal Low prevails over Northeastern Balochistan. Yesterday's Monsoon Low over North Orissa (India), at present, lies over Northeast Madhya Pradesh (India).

3. FFD, Lahore has predicted scattered thunderstorm/ rain of moderate intensity over **Islamabad and Rawalpindi Division** including **Peshawar, Kohat and Bannu Divisions (Khyber Pakhtunkhwa)**, besides upper catchments of rivers Indus, Kabul & Jhelum during the next 24 hours. Isolated thunderstorm/ rain may also occur over **Gujranwala, Sargodha and Bahawalpur Divisions of Punjab** including upper catchments of rivers Chenab, Ravi & Sutlej during the same period. No significant rainfall event has been reported by FFD, Lahore during the past 24 hours except for Gujranwala = 8 mm.

Rainfall/ Weather Forecast for the period 20th to 22nd August 2021:

4. According to FFD, Lahore, scattered thunderstorm/ rain with isolated **Heavy Falls** is expected over **Islamabad, North & Northeastern Punjab including D.G. Khan & Bahawalpur Divisions and Peshawar, Kohat and Bannu Divisions of Khyber Pakhtunkhwa**, besides upper catchments of rivers Indus, Kabul, Jhelum, Chenab, Ravi & Sutlej.

5. Pakistan Meteorological Department (PMD), Islamabad through FFD, Lahore is monitoring the present weather system and is keeping all concerned fully cognizant of the situation.


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

Distribution:

1. Minister for Water Resources, Islamabad.
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13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chairman, National Highway Authority, Islamabad.
15. Chairman, Indus River System Authority, Islamabad
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17. Director General, Pakistan Meteorological Department, Islamabad.
18. Chief Secretary, Government of the Punjab, Lahore.
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27. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
28. Secretary, Irrigation Department, Government of Balochistan, Quetta.
29. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
32. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
33. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
34. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
35. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
36. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
37. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
38. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
39. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
40. Principal Information Officer, Press Information Department, Islamabad.
41. Director (News), Associated Press of Pakistan, Islamabad.
42. Director (News), Pakistan Television, Islamabad.
43. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi
44. PS to CEA/ CFFC Islamabad.

U.O. No. FC-I (31)/2021, dated 19-08-2021

Rivers and Reservoir Positions August 19, 2021 at 0600 Hours

A. River Flow Situation:

Structures	Designed Capacity	Last Year Flow		Today Actual Flow		Comparative Danger (VHF) Classification	Flood Classification* (Based on today's Outflow)
		Inflow	Out Flow	In Flow	Out Flow		
1	2	3	4	5	6	7	8
River Indus							
▪ Tarbela Reservoir	1,500,000	246,000	240,000	114,000	130,000	650,000	Normal
▪ Kalabagh	950,000	207,000	199,000	176,000	168,000	650,000	Normal
▪ Chashma Reservoir	950,000	173,000	165,000	186,000	170,000	650,000	Normal
▪ Taunsa	1,000,000	171,000	146,000	169,000	140,000	650,000	Normal
▪ Guddu	1,200,000	134,000	100,000	121,000	90,000	700,000	Normal
▪ Sukkur	900,000	91,000	39,000	82,000	32,000	700,000	Normal
▪ Kotri	875,000	61,000	23,000	38,000	2,000	650,000	Normal
River Kabul							
▪ Warsak	540,000		33,000		21,000	200,000	Normal
▪ Nowshera			43,000		27,000	200,000	Normal
River Swat (Tributary of Kabul)							
▪ Chakdara Bridge			13,000		9,000	150,000	Normal
▪ Munda Head Works	150,000		7,000		7,000	150,000	Normal
▪ Charsadda Road Bridge			6,000		6,000	100,000	Normal
River Jhelum							
▪ Mangla Reservoir	1,060,000	50,000	9,000	23,000	34,000	225,000	Normal
▪ Rasul	850,000	8,000	5,000	27,000	12,000	225,000	Normal
River Chenab							
▪ Marala	1,100,000	97,000	67,000	42,000	6,000	400,000	Normal
▪ Khanki	1,100,000	71,000	63,000	9,000	2,000	400,000	Normal
▪ Qadirabad	900,000	62,000	48,000	8,000	NIL	400,000	Normal
▪ Trimmu	875,000	27,000	12,000	25,000	12,000	450,000	Normal
▪ Panjnad	865,000	16,000	NIL	14,000	NIL	450,000	Normal
River Ravi							
▪ Jassar	275,000		17,000		4,000	150,000	Normal
▪ Shahdara	250,000		29,000		21,000	135,000	Normal
▪ Balloki	380,000	35,000	2,000	28,000	NIL	135,000	Normal
▪ Sidhnai	150,000	22,000	7,000	16,000	NIL	90,000	Normal
River Sutlej							
▪ Suleimanki	325,000	19,000	5,000	16,000	2,000	175,000	Normal
▪ Islam	332,000	1,000	NIL	1,000	NIL	175,000	Normal

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)
			2019	2020	2021	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1392.00	1549.44	1534.93	1543.40	5.882	5.131	5.505	94.00 %
Chashma	649.00	638.15	642.00	646.80	645.70	0.278	0.179	0.145	52.15 %
Mangla	1242.00	1050.00	1213.65	1236.80	1202.90	7.356	6.945	4.518	61.41 %
Total Live Storage						13.516	12.255	10.168	75.22 %

C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	35.7 °C	31.1 °C
Minimum	21.3 °C	14.0 °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)

* (↑) Signifies "Rising" Flood, (↓) Signifies "Falling" Flood, (→) Signifies "Stable" Flow Condition & NR stands for "Not Received"