



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
MONDAY, AUGUST 24, 2020

All the major rivers (Indus, Jhelum, Chenab, Ravi and Sutlej) are presently flowing in "Normal Flow condition" with no riverine flood situation in the country. Today's Combined Live Storage of Tarbela, Mangla & Chashma reservoirs is **13.028 MAF (95.69% of existing live storage capacity of 13.614 MAF)**. The discharges of main rivers including water level and storage position of major reservoirs may be seen at **Annexure-I**.


2. **Tarbela and Mangla Reservoirs** are at **1544.93 feet** and **1238.60 feet** respectively (i.e. **5.07 feet** and **3.40 feet** are below their respective MCL of **1550.00 feet** and **1242.00 feet**). The respective Management Authorities are advised for strict surveillance, effective and stringent monitoring and judicious impounding/ releases of flows as per prevailing SOPs and Dam Safety Guidelines.

3. **Well Marked Monsoon Low** earlier over Northwestern Madhya Pradesh (India) today lies over southern parts of Rajasthan (India) and its neighbourhood after moving West Northwestwards. **Moderate moist currents** from Arabian Sea are penetrating into lower half of Pakistan upto 7000 feet whereas **weak moist currents** are also penetrating into upper half of Pakistan upto 5000 feet. **Weak Seasonal Low** prevails over Western Balochistan besides **Westerly Wave trough** over Northeastern parts of Iran and its adjoining areas (Refer FFD, Lahore Bulletin No. A-71/ 20 dated 24th August 2020).

4. For the next 24 hours, Flood Forecasting Division (FFD), Lahore, has predicted isolated thunderstorm/rain over Punjab (**Rawalpindi, Gujranwala, Lahore, Bahawalpur & D.G Khan Divisions**), Khyber Pakhtunkhwa (**Malakand & D.I. Khan Divisions**), Sindh (**Shaheed Benazirabad, Dadu, Sukkur and Larkana Districts**) including upper catchments of all the major Rivers. During the same period, scattered wind-thundershower/rain with **isolated Heavy Falls** are also expected over **Karachi, Hyderabad, Thatta, Badin, Tharparker, Mirpurkhas, Umar Kot & Sanghar Districts** of Sindh and Eastern Balochistan. In Punjab, as a consequence of above rains, **mild flood flows** are expected in the **Hill Torrents of D.G. Khan** Division. No prominent rainfall has been reported by FFD, Lahore, for the past 24 hours except for Mithi=76 mm, Badin=12 mm & Lahore=10 mm.

5. Further to above, FFD, Lahore, has predicted significant increase in the rainfall activity over Punjab (**Rawalpindi, Gujranwala & Lahore Divisions**), Khyber Pakhtunkhwa (**Peshawar, Kohat, Bannu, D.I. Khan Divisions**) and **Kashmir** including the upper catchments of Rivers **Kabul, Jhelum, Chenab** and **Ravi** after **48 hours**. The expected Widespread/Thunderstorm/Rain with scattered **Heavy Falls** and isolated **Very Heavy Falls** over upper catchments of above mentioned main rivers is likely to enhance the discharges in these rivers from **26th to 28th August, 2020**.

6. Prevailing weather system is being actively monitored by Pakistan Meteorological Department (PMD) especially with regard to further movement, intensity and impact of **Well Marked Monsoon Low** presently over Sothern parts of **Rajasthan, India** (Close to Mirpurkhas, Daharki in Sindh and Sadiqabad, Punjab, Pakistan). FFD, Lahore is keeping all concerned fully abreast of the situation.


(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. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.

4. Secretary, Ministry of Water Resources, Islamabad.
5. Secretary, Ministry of Climate Change, Islamabad.
6. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
7. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
8. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.
9. Chief Executive Officer, Pakistan Railways, Lahore.
10. Member (Infrastructure), Planning Commission, Islamabad.
11. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
12. Chairman, WAPDA, WAPDA House, Lahore.
13. Chairman, National Highway Authority, Islamabad.
14. Chairman, Indus River System Authority, Islamabad.
15. Member (Water), WAPDA, WAPDA House, Lahore.
16. Director General, Pakistan Meteorological Department, Islamabad.
17. Chief Secretary, Government of the Punjab, Lahore.
18. Chief Secretary, Government of Sindh, Karachi.
19. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
20. Chief Secretary, Government of Balochistan, Quetta.
21. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
22. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
23. Chief Commissioner, Islamabad.
24. Secretary, Irrigation Department, Government of the Punjab, Lahore.
25. Secretary, Irrigation Department, Government of Sindh, Karachi.
26. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
27. Secretary, Irrigation Department, Government of Balochistan, Quetta.
28. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
29. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
30. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
31. Project Director/Chief Engineer, Mangla Dam Organization (MDO), WAPDA, Mangla.
32. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
33. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
34. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
35. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
36. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
37. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
38. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
39. Principal Information Officer, Press Information Department, Islamabad.
40. Director (News), Associated Press of Pakistan, Islamabad.
41. Director (News), Pakistan Television, Islamabad.
42. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.

U.O. No.FC-I (31)/2020, dated 24-08-2020

**Discharges at Important River Sites
August 24, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Flood Classification*
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	189,000	129,000	650,000	Normal
▪ Kalabagh	950,000	188,000	181,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	209,000	202,000	650,000	Normal
▪ Taunsa ^	1,000,000	249,000	225,000	650,000	Normal
▪ Guddu	1,200,000	148,000	116,000	700,000	Normal
▪ Sukkur ^^	900,000	100,000	61,000	700,000	Normal
▪ Kotri	875,000	37,000	24,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		31,000	200,000	Normal
▪ Nowshera			39,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			10,000	150,000	Normal
▪ Munda Head Works ^^^	150,000		8,000	150,000	Normal
▪ Charsadda Road Bridge			6,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	19,000	11,000	225,000	Normal
▪ Rasul	850,000	1,000	NIL	225,000	Normal
River Chenab					
▪ Marala	1,100,000	78,000	54,000	400,000	Normal
▪ Khanki	1,100,000	51,000	44,000	400,000	Normal
▪ Qadirabad	900,000	54,000	36,000	400,000	Normal
▪ Trimmu	645,000	51,000	37,000	450,000	Normal
▪ Panjnad	700,000	19,000	3,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		11,000	150,000	Normal
▪ Shahdara	250,000		25,000	135,000	Normal
▪ Balloki	225,000	49,000	19,000	135,000	Normal
▪ Sidhnai	150,000	27,000	12,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	21,000	8,000	175,000	Normal
▪ Islam	300,000	4,000	2,000	175,000	Normal

Live Storage (MAF) ⁺

Reservoir Elevation (in Feet Above Mean Sea Level)		2020	2019	2018	Maximum	Today	Last Year
Tarbela:	Maximum Conservation Level:	1550.00	1544.93	1550.00	1550.00	5.980	6.049
	Minimum Operating Level:	1392.00					
Chashma:	Maximum Conservation Level:	649.00	648.50	647.90	646.00	0.278	0.223
	Minimum Operating Level:	637.00					
Mangla:	Maximum Conservation Level:	1242.00	1238.60	1216.80	1173.40	<u>7.356</u>	<u>5.457</u>
	Minimum Operating Level:	1050.00					
Total Live Storage					13.614	13.028	11.729

Skardu Temperature	Today 2020	Last year 2019
Maximum	33.6 °C	28.7 °C
Minimum	12.8 °C	17.0 °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)

** (R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

+ Based on IRSA's Daily Hydrological Data

^^ PID, Sindh vide letter No. DR/4-17/2015/839 dated 22-04-2015 informed that design discharge capacity of Sukkur Barrage has decreased from 1,500,000 cusecs to 900,000 cusecs due to closing of its ten (10) gates as a result of model study carried out in Poona during 1941-42 to control silting problem in right bank canals.

^^ As per PID, Punjab's letter No. IWT&R/14/1108/04/97 dated 17-09-2014

^^^ As per PID, KP's letter No. 1271GSG-II dated 11-06-2018