



**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 10, 2020**

Rivers/ Reservoirs Position:

All main rivers (Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing Normal. The discharges (inflows/outflows) of the main rivers at important control structures alongwith water levels and storage position of major reservoirs (Tarbela, Chashma & Mangla) as of 0600 hours today may be seen at **Annexure-I** which indicates that Tarbela Reservoir has attained water level of **1500.80 feet** i.e. **49.20 feet** below its Maximum Conservation Level (MCL) of **1550.00 feet**. **Mangla reservoir** is at elevation of **1233.35 feet** i.e. **8.65 feet** below its MCL of **1242.00 feet**. In view of higher water level at **Mangla reservoir**, ultra vigilance is required from the Mangla Dam Management, Flood Mitigation Committee (FMC), IRSA and FFD, Lahore, to ensure dam safety and to regulate surplus flood water as a consequence of any flood generating meteorological activity so as to avoid flood like situation in downstream area.

Urban and Flash Flooding in Sindh

2. Heavy rainfall spell occurred in various parts of Sindh Province during **6th-8th August 2020** had caused severe urban flooding in Karachi, Hyderabad and other big cities. The torrential rains in Khirther hill range has generated flash flood flows in Gaj Nai, which had reportedly breached the **Gaj Diversion Bund at RD 11+000 to RD 15+000**. The flood water passed through breach section has reportedly caused four (4) breaches in Flood Protective Bund (**F.P Bund**) in Reach **RD 42+000 to RD 75+000**. Work on plugging the breach at **RD 75+000** is reportedly in progress. The field formation of PID Sindh has informed that breach would be hopefully plugged by this evening. It has further been reported that machinery at sites of remaining three (3) breaches has shifted. The remaining three (3) breaches are likely to be plugged within next **36-48 hours**. The rescue & relief activities by concerned Provincial organizations with the help of Pak Army are in progress.

Flash Flooding in Balochistan

3. The flash flood flows causing damages and breaches in National Highways and Provincial Highways have subsided. The relief activities by concerned organization with the help of Pak Army are reportedly in progress. The concerned organizations are also reportedly busy in restoring blocked roads. The situation is likely to be normalized within next few days.


Weather & Rainfall Forecast for next 24 hours:

4. According to FFD, Lahore, **yesterday's trough of Westerly Wave** over Northeastern Afghanistan & adjoining Pakistan today lies over Northern parts of the country whereas **Seasonal Low** lies over Northern Balochistan. As a result, **light to moderate moist currents from Arabian Sea & Bay of Bengal** are penetrating into upper parts of the country upto 5000 feet.

5. Under the influence of prevailing weather system, FFD, Lahore, has predicted scattered thunderstorm/rain of moderate intensity with **Isolated Heavy Falls** and **few very Heavy Falls** over Punjab (**Rawalpindi, Gujranwala & Lahore Divisions**), Khyber Pakhtunkhwa (**Malakand, Hazara & D.I. Khan Divisions**) including the upper catchments of all main rivers during the next 24 hours. Isolated thunderstorm/rain may also occur over rest of the Punjab, Khyber Pakhtunkhwa and Eastern Balochistan during the same period. Prominent rainfall events occurred during the past 24 hours as reported by FFD, Lahore, may be seen at **Annexure-II**.

6. As per FFD, Lahore, Sharp peaks of **Low to Medium flood** in River Jhelum at upstream Mangla, besides, **Mild flows** in the Hill Torrents of D.G. Khan Division are expected during next **48 hours**. Low to Medium level flows are also expected in the Deg Nullah (the tributary of River Ravi) during next **24 hours**.

7. Round-the-clock active monitoring of prevailing weather systems is being carried out by the Pakistan Meteorological Department (PMD) especially with regards to further movement, intensity and impact on Pakistan and is keeping all concerned fully cognizant of the situation through FFD, Lahore.


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

Distribution:

1. Minister for Water Resources, Islamabad.
 - Minister for Planning, Development & Special Initiatives, Islamabad.
 2. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.
 3. Secretary, Ministry of Water Resources, Islamabad.
 4. Secretary, Ministry of Climate Change, Islamabad.
 5. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
 6. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
 7. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.
 8. Chief Executive Officer, Pakistan Railways, Lahore.
 9. Member (Infrastructure), Planning Commission, Islamabad.
 10. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
 11. Chairman, WAPDA, WAPDA House, Lahore.
 12. Chairman, National Highway Authority, Islamabad.
 13. Chairman, Indus River System Authority, Islamabad.
 14. Member (Water), WAPDA, WAPDA House, Lahore.
 15. Director General, Pakistan Meteorological Department, Islamabad.
 16. Chief Secretary, Government of the Punjab, Lahore.
 17. Chief Secretary, Government of Sindh, Karachi.
 18. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
 19. Chief Secretary, Government of Balochistan, Quetta.
 20. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
 21. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
 22. Chief Commissioner, Islamabad.
 23. Secretary, Irrigation Department, Government of the Punjab, Lahore.
 24. Secretary, Irrigation Department, Government of Sindh, Karachi.
 25. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
 26. Secretary, Irrigation Department, Government of Balochistan, Quetta.
 27. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
 28. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
 29. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
 30. Project Director/Chief Engineer, Mangla Dam Organization (MDO), WAPDA, Mangla.
 31. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
 32. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
 33. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
 34. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
 35. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
 36. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
 37. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
 38. Principal Information Officer, Press Information Department, Islamabad.
 39. Director (News), Associated Press of Pakistan, Islamabad.
 40. Director (News), Pakistan Television, Islamabad.
 41. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
- U.O. No.FC-I (31)/2020, dated 10-08-2020

**Discharges at Important River Sites
August 10, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	229,000	110,000	650,000	Normal
▪ Kalabagh	950,000	177,000	169,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	177,000	170,000	650,000	Normal
▪ Taunsa [^]	1,000,000	180,000	156,000	650,000	Normal
▪ Guddu	1,200,000	148,000	146,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	147,000	108,000	700,000	Normal
▪ Kotri	875,000	51,000	26,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		33,000	200,000	Normal
▪ Nowshera			42,000	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			7,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	31,000	8,000	225,000	Normal
▪ Rasul	850,000	8,000	5,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	88,000	56,000	400,000	Normal
▪ Khanki	1,100,000	45,000	37,000	400,000	Normal
▪ Qadirabad	900,000	38,000	21,000	400,000	Normal
▪ Trimmu	645,000	14,000	NIL	450,000	Normal
▪ Panjnad	700,000	19,000	5,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		6,000	150,000	Normal
▪ Shahdara	250,000		24,000	135,000	Normal
▪ Balloki	225,000	40,000	8,000	135,000	Normal
▪ Sidhnai	150,000	19,000	4,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	15,000	1,000	175,000	Normal
▪ Islam	300,000	3,000	1,000	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	1500.80	1545.00	1531.23	5.980	3.384	5.763
	Minimum Operating Level:	1392.00						
Chashma:	Maximum Conservation Level:	649.00	640.50	641.50	642.00	0.278	0.032	0.049
	Minimum Operating Level:	637.00						
Mangla:	Maximum Conservation Level:	1242.00	1233.35	1203.00	1159.70	<u>7.356</u>	<u>6.677</u>	<u>4.525</u>
	Minimum Operating Level:	1050.00						
Total Live Storage					13.614	10.093	10.337	

Skardu Temperature	Today 2020	Last year 2019
Maximum	29.7 °C	34.9 °C
Minimum	16.3 °C	22.0 °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

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A		
Punjab		
1.	Lahore	Taj Pura = 126, Lukshmi = 121, Township = 96, Misri Shah = 94, Shahi Qilla = 86, Mughal Pura = 85, Upper Mall = 79, Shahdara = 71, Airport & Samanabad = 68 (each), Gulshan-e-Ravi = 65, Punjab University = 52, Gulberg & Johar Town = 51(each), Jail Road = 41& Iqbal Town = 16
2.	Narowal	54
3.	Sialkot	42
4.	Islamabad	Golra = 24, New Airport = 17, Shamsabad = 14, Zeropoint = 12, Saidpur = 09 & Bokra = 06
5.	Haraman	19
6.	Bhoun	17
7.	Chakwal	15
8.	Gujranwala	12
9.	Phulra	08
10.	Murree	07
B.		
Azad Jammu & Kashmir		
1.	Kotli	43
2.	Domel	36
3.	Balakot	34
4.	Muzaffarabad	(City=23& Airport= 17)
5.	Chattar Kallas	22
6.	Palandri	05
C		
Khyber Pakhtunkhwa		
1.	Malam Jabba	42
2.	Rashid Abad	27
3.	Daggar	15
4.	Cherat	14
5.	Oghi	13
6.	Garhiala	10
7.	Buner & Tanda Dam(each),	08
8.	Takhtbai & Shinkiari	07
9.	Parachinar	05
D		
Balochistan		
1.	Quetta	14
2.	Khuzdar	12
3.	Kalat	07
4.	Muslim Bagh	06
5.	Turbat	05
E		
Gilgit-Baltistan		
1.	Bunji	09

Source: FFD, Lahore (Phone No. 042 99200139)