



**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
FRIDAY AUGUST 07, 2020**

There is no riverine flood situation in the country at present except for urban flooding issues in Sindh especially in the metropolitan Karachi. Main river's discharges (inflows/outflows) at important control structures (dams, barrages, headworks etc.) alongwith water levels and storage status of major reservoirs (Tarbela, Chashma & Mangla) as of 0600 hours today may be seen at **Annexure-I**.

2. Although **2.77 feet** increase in water level of **Tarbela reservoir** has been observed (i.e 1490.44 feet of today Vs 1487.67 feet of yesterday) during past 24 hours, but the escape discharge downstream Kotri Barrage (i.e. 35,000 cusecs) seems to be much higher considering continuous low temperature driven less inflows in River Indus at Tarbela during current monsoon season. IRSA is accordingly fully cognizant of the situation and is ensuring maximum storage gains without compromising on provincial indents.

3. Water level in **Mangla reservoir** is at **1232.10 feet** leaving behind a storage space of **9.90 feet** to attain its MCL of **1242.00 feet**. Mangla Dam Management & Flood Mitigation Committee (FMC) are advised for their continuous monitoring of reservoirs' inflows & outflows through effective regulation in line with the approved SOPs, dam safety guidelines & IRSA's advice.

4. Yesterday's **Well Marked Monsoon Low** over Western Madhya Pradesh (India) has reached Pakistan and today lies over Southeastern Sindh. The Cyclonic Circulation (extension of monsoon low in upper air) earlier over South Gujarat (India) has merged into **Well Marked Monsoon Low**. According to FFD, Lahore, a fresh & strong trough of Westerly Wave is currently prevailing over Northwestern Afghanistan with Weak Seasonal Low persisting over Western Balochistan. Arabian Sea's Moderate to Strong moist currents penetration into Southern parts and Light to Moderate moist currents into Upper parts of Pakistan upto 7000 feet and 4000 feet respectively have also been reported by the FFD, Lahore.


5. For the ensuing 24 hours FFD, Lahore, has predicted widespread rain/wind-thundershowers with **Isolated Heavy to Very Heavy Falls** over a number of cities of Sindh including: Karachi, Hyderabad, Thatta, Badin, Tharparker, Umerkot, Mirpurkhas, Sanghar, Tando Allah Yar, Matiari, Tando Muhammad Khan, Jamshoro, Dadu & Shaheed Benazirabad, besides over Balochistan (Awaran, Khuzdar & Lasbela). During the same period isolated thunderstorm/rain is expected over Rawalpindi, Gujranwala, Sargodha, Lahore & D.G. Khan Divisions (Punjab) and Malakand, Hazara, Peshawar, Kohat, Bannu & D.I. Khan Divisions (Khyber Pakhtunkhwa), besides scattered thunderstorm/rain over upper catchments of all the major rivers of IRS. Further to above, scattered rain-thundershowers with **Isolated Heavy Falls** are also expected over Punjab (**Bahawalpur & Rahim Yar Khan**), Sindh (**Khairpur, Sukkur, Larkana, Qambar Shahdad Kot, Jacobabad, Kashmore & Ghotki**) and Balochistan (**Kalat, Jaffarabad & Jhal Magsi**) during the succeeding 24 hours.

6. As a consequence of predicted weather situation, heavy downpour may result into **Urban Flooding** in Karachi & Hyderabad and **Flash Flooding** in the Hill Torrents of Eastern Balochistan and Nullahs/Rivers of Coastal Balochistan during the above mentioned period of 24 hours. Some prominent rainfall events of last 24 hours may be seen at **Annexure-II**.

Weather Prediction: Next 48 hours:

7. For the following 48 hours, wet spell is likely to decrease over Southern parts of Pakistan and Monsoon activity is likely to increase over upper half of the country. Rainfall activity of moderate intensity with **Isolated Heavy Falls** and **Few Very Heavy Falls** is likely to start from **9th August, 2020** over the upper catchments of rivers Indus, Jhelum, Chenab & Ravi that may cause enhanced discharge in these rivers.

8. Round-the-clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) especially with regard to further movement, intensity and impact of **Well Marked Monsoon Low** which is presently over Southern Sindh (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 07-08-2020

**Discharges at Important River Sites
August 07, 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	184,000	103,000	650,000	Normal
▪ Kalabagh	950,000	184,000	176,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	197,000	190,000	650,000	Normal
▪ Taunsa ^	1,000,000	190,000	166,000	650,000	Normal
▪ Guddu	1,200,000	145,000	120,000	700,000	Normal
▪ Sukkur ^^	900,000	104,000	55,000	700,000	Normal
▪ Kotri	875,000	51,000	35,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		32,000	200,000	Normal
▪ Nowshera			45,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			10,000	150,000	Normal
▪ Munda Head Works ^^^	150,000		9,000	150,000	Normal
▪ Charsadda Road Bridge			8,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	24,000	14,000	225,000	Normal
▪ Rasul	850,000	8,000	NIL	225,000	Normal
River Chenab					
▪ Marala	1,100,000	61,000	30,000	400,000	Normal
▪ Khanki	1,100,000	31,000	23,000	400,000	Normal
▪ Qadirabad	900,000	33,000	11,000	400,000	Normal
▪ Trimmu	645,000	16,000	2,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		7,000	150,000	Normal
▪ Shahdara	250,000		22,000	135,000	Normal
▪ Balloki	225,000	45,000	13,000	135,000	Normal
▪ Sidhnai	150,000	27,000	13,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	17,000	3,000	175,000	Normal
▪ Islam	300,000	2,000	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	1490.44	1542.00	1521.44	5.980	2.906	5.592
	Minimum Operating Level:	1392.00						
Chashma:	Maximum Conservation Level:	649.00	645.40	642.50	639.90	0.278	0.136	0.068
	Minimum Operating Level:	637.00						
Mangla:	Maximum Conservation Level:	1242.00	1232.10	1199.20	1154.25	7.356	6.580	4.280
	Minimum Operating Level:	1050.00						
Total Live Storage						13.614	9.622	9.940

Skardu Temperature	Today 2020	Last year 2019
Maximum	32.7 °C	36.3 °C
Minimum	15.5 °C	18.0 °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	Sindh	
1.	Karachi	(Faisal Base=94, Sarjani Town=73, Saddar=70, Airport=68, University Road=57, Gulshan e Hadeed=53, Landhi=44, Nazimabad=40 & Masroor=39, North Karachi=33, Kemari=22 & Jinnah Terminal=11)
2.	Shaheed Benazeerabad	47
3.	Sakrand	35
4.	Tando Jam	19
5.	Hyderabad	14
6.	Thatta	12
7.	Chhor & Badin	7 each
B	Khyber Pakhtunkhwa	
1.	Kakul	25
2.	Besham,	07
3.	Oghi	05
C	Balochistan	
1.	Khuzdar	17
2.	Ziarat	16
3.	Ormara	06

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