



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

**DAILY WEATHER & FLOOD SITUATION REPORT
SATURDAY, AUGUST 22, 2020**

All main rivers of Indus River system are flowing with "Normal Flow Condition". There is no riverine flood situation in the country. However, **Karachi City** received heavy rains yesterday which caused severe **Urban Flooding**. The inflows/outflows of main rivers at important control structures and major reservoir's (**Tarbela, Mangla and Chashma**) water levels & storage position may be seen at **Annexure-I**.

2. Due to releases of surplus flood water from **Salal Dam** by India, **River Chenab at Marala** attained **Low Flood (inflow = 152,000 cusecs at 2359 hours midnight)**. Flow in River Chenab at Marala has receded and presently it is flowing normal.

3. Water level in **Tarbela and Mangla Reservoir** is at elevation of **1540.93 feet and 1238.05 feet** i.e **9.07 feet and 3.95 feet** below their respective **Maximum Conservation Level of 1550.00 feet and 1242.00 feet**. Tarbela & Mangla Management Authorities are advised for strict surveillance, effective monitoring and calculated impounding/ releases as per prevailing SOPs and Dam Safety Guidelines.

4. Yesterday's **Monsoon Depression** over East Madhya Pradesh (India) moved West-Northwestwards and today lies over Central Madhya Pradesh (India) and converted into **Well Marked Low**. As per FFD, Lahore, presently **moderate to strong moist currents** from both Arabian Sea & Bay of Bengal are penetrating into the lower half of Pakistan upto 7000 feet with **Weak Seasonal Low** lying over Western Balochistan.

5. For the following 24 hours, FFD's Lahore forecast predicts isolated thunderstorm/rain over upper catchments of all the major rivers, besides, scattered wind-thundershower/rain with few **moderate to heavy falls** and **isolated very heavy falls** over Sindh (**Karachi, Hyderabad, Thatta, Badin, Shaheed Benazirabad, Dadu, Tharparker, Mirpurkhas, Umar Kot, Sanghar, Sukkur & Larkana Districts**) and Balochistan (**Lasbella, Khuzdar, Barkhan, Zhob, Musa Khel, Loralai, Kohlu & Sibbi Districts**). Scattered thunderstorm/rain with **isolated heavy falls** may also occur over Bahawalpur & D.G. Khan Divisions of Punjab and D.I. Khan Division of KP during the same period. Last 24 hours prominent rainfall events may be seen at **Annexure-II**.


6. **Flood Forecast for next 24 hours:** Under the influence of prevailing weather system FFD, Lahore has predicted:

- **Medium to High Flood in River Chenab at Marala** due to likely flood water releases from Salal Dam by India.
- **Low to Medium Flood in River Chenab in "Khanki-Qadirabad Reach"** and in the Hill Torrents of DG Khan Division
- **Low Flood in River Ravi at Balloki Headworks.**

7. **Weather Outlook for next 3 days (23rd to 25th August 2020):**

- **Widespread** wind-thundershower/rain with few **moderate to heavy falls** and **isolated very heavy falls** over Sindh (**Karachi, Hyderabad, Thatta, Badin, Shaheed Benazirabad, Dadu, Tharparker, Mirpurkhas, Umar Kot, Sanghar, Sukkur & Larkana Districts**) and Balochistan (**Lasbella, Khuzdar, Barkhan, Zhob, Musa Khel, Loralai, Kohlu & Sibbi Districts**).
- Thundershowers/rain over **Bhakkar, Layyah, D.G. Khan, Multan, Bahawalpur, Bahawalnagar and Rajanpur Divisions of Punjab.**

8. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD), especially with regard to tracking further movement, intensity and impact of **Well Marked Monsoon Low** presently over Central Madhya Pradesh (India). 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 22-08-2020

**Discharges at Important River Sites
August 22, 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	208,000	159,000	650,000	Normal
▪ Kalabagh	950,000	217,000	209,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	251,000	245,000	650,000	Normal
▪ Taunsa [^]	1,000,000	228,000	201,000	650,000	Normal
▪ Guddu	1,200,000	130,000	108,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	90,000	50,000	700,000	Normal
▪ Kotri	875,000	41,000	26,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		31,000	200,000	Normal
▪ Nowshera			47,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			14,000	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	21,000	8,000	225,000	Normal
▪ Rasul	850,000	9,000	8,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	100,000	76,000	400,000	Normal
▪ Khanki	1,100,000	67,000	60,000	400,000	Normal
▪ Qadirabad	900,000	62,000	44,000	400,000	Normal
▪ Trimmu	645,000	57,000	42,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		22,000	150,000	Normal
▪ Shahdara	250,000		25,000	135,000	Normal
▪ Balloki	225,000	51,000	22,000	135,000	Normal
▪ Sidhnai	150,000	16,000	1,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	20,000	6,000	175,000	Normal
▪ Islam	300,000	3,000	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	1540.93	1550.00	1550.00	5.980	6.049
	Minimum Operating Level:	1392.00					
Chashma:	Maximum Conservation Level:	649.00	648.50	647.00	647.00	0.278	0.186
	Minimum Operating Level:	637.00					
Mangla:	Maximum Conservation Level:	1242.00	1238.05	1215.85	1172.10	<u>7.356</u>	<u>5.391</u>
	Minimum Operating Level:	1050.00					
Total Live Storage					13.614	12.757	11.626

Skardu Temperature	Today 2020	Last year 2019
Maximum	28.4 °C	28.2 °C
Minimum	16.4 °C	15.0 °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	(Surjani Town=186, North Karachi & Nazimabad=106(each), Gulshan e Hadeed=84, Masroor Base=54, Sadi Town=37, University Road=28, Landhi=25, Faisal Base=22, Jinnah Terminal=21, Airport=14 & Kemari=12)
2.	Thatta	30
3.	Tando Jam	28
4.	Badin	27
5.	Mirpur Khas	25
6.	Mithi	19
7.	Hyderabad	18
8.	Chhor	15
9.	Islamkot	13
10.	Diplo	11
11.	Dadu	09
B		
Khyber Pakhtunkhwa		
1.	Mohmand Dam	35
2.	Shinkiari	32
3.	Balakot	23
4.	Pattan	07
5.	Parachinar	05
C		
Azad Jammu & Kashmir		
1.	Brarkot	29
2.	Domel	17
3.	Muzaffarabad	09
D		
Balochistan		
1.	Kalat	13
E		
Gilgit-Baltistan		
1.	Bagrote	08
F		
Punjab		
1.	Okara	07
2.	Phulra & Gujrat	05 each

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