



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 28, 2020**

By the grace of Almighty Allah, both **Tarbela and Mangla reservoirs** have attained their Maximum Conservation Levels (MCLs) i.e. **1550.00 feet & 1242.00 feet** respectively. This has become possible due to effective management of reservoirs inflows and outflows especially by WAPDA and IRSA. **At the same time, dam operating authorities including FMC of Mangla, IRSA, PMD/FFD, Lahore are advised to take utmost care and exercise extra vigilance in these reservoir's further operation and strictly follow SOPs and associated Dam Safety Guidelines.** The present combined live storage of major reservoirs (**Tarbela, Mangla & Chashma**) is **13.425 MAF** (i.e. **98.61% of 13.614 MAF**). The discharges of main rivers at important control structures and water levels & storage position of major reservoirs as of 0600 hours today may be seen at **Annexure-I**.

2. Sporadic and heavy rains over the upper catchments of river Chenab has resulted into **High Flood discharges in "Marala-Khanki Reach"** with **Medium Flood** at **Qadirabad** (downstream Khanki). Also, River Indus at **Tarbela, Chashma & in "Guddu-Sukkur Reach"**, River Jhelum in "**Mangla-Rasul Reach**" and River Swat at **Chakdara Bridge** are presently flowing in **Low Flood**. Other main rivers (**Ravi & Sutlej**) are flowing normal. Due to sporadic rains in upstream catchment areas of River Jhelum (**Kotli, Kallar, Palandri, Mangla, Rawalakot etc**), River Jhelum at **Mangla** experienced **Very High Flood discharge (265,000 cusecs inflow)** at **1600 hours on 27<sup>th</sup> August 2020**. Also River Chenab at **Marala** has experienced **High Flood Level (304,000/299,000 cusecs inflow/outflow)** at **2400 hours on 27<sup>th</sup> August 2020**. The heavy rainfall spell occurred during past few days in various parts of Sindh, especially in Karachi city, has caused severe urban flooding in Karachi.


3. **Monsoon Depression** earlier over North Orissa (India), today lies over North Chattisgarh (India) and adjoining Eastern Madhya Pradesh (India) with weak **Seasonal Low** persisting over Western Balochistan bringing in weak **moist currents** from Arabian Sea into upper parts of Pakistan upto 5000 feet. **Westerly Wave Trough** over Kashmir is moving away Eastwards.

4. Scattered thunderstorm/rain of moderate intensity has been predicted by FFD, Lahore, for the next 24 hours over **Rawalpindi, Lahore, Gujranwala, Sargodha & D. G. Khan Divisions** (Punjab), **Peshawar, Kohat, D.I. Khan Divisions** (Khyber Pakhtunkhwa) including upper catchments of all the major Rivers, besides, isolated thunderstorm/rain over **Multan, Faisalabad, Sahiwal & Bahawalpur Divisions** (Punjab), Southern & Southeastern Sindh and Northeastern Balochistan. **Annexure-II** depicts significant rainfall events for the past 24 hours.

**Flood Forecast for next 24-48 Hours:**

5. As per FFD, Lahore: **River Jhelum** at **Mangla** (upstream) is likely to attain **Medium to High Flood Category (Range: 110,000 cusecs to 150,000 cusecs)** - **River Chenab** in "**Khanki-Qadirabad Reach**" may attain **High Flood Category (Range: 150,000 cusecs to 200,000 cusecs)** - **River Chenab** at **Trimmu** is likely to experience **Medium to High Flood Category (Range: 200,000 cusecs to 300,000 cusecs)** on **30<sup>th</sup> August 2020**. Further, flows are also likely to increase upto **Medium Flood Category** in Nullahs of Rivers **Chenab & Ravi** and Hill Torrents of **D. G. Khan Division**.

6. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD), especially with respect to tracking further movement, intensity and impact of **Monsoon Depression** presently lying over North Chattisgarh (India) & adjoining Eastern Madhya Pradesh (India). Additionally FFD, Lahore, is continuously updating Mangla FMC with regard to Mangla upstream flows. FFD, Lahore, is also keeping all concerned fully informed of the meteorological 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 28-08-2020

**Discharges at Important River Sites  
August 28, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Flood Classification*
		In Flow	Out Flow		
<b>River Indus</b>					
▪ Tarbela Reservoir	1,500,000	240,000	269,000	650,000	Low Flood (R)
▪ Kalabagh	950,000	240,000	233,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	272,000	267,000	650,000	Low Flood (R)
▪ Taunsa ^	1,000,000	208,000	193,000	650,000	Normal
▪ Guddu	1,200,000	226,000	218,000	700,000	Low Flood (F)
▪ Sukkur ^^	900,000	214,000	211,000	700,000	Low Flood(R)
▪ Kotri	875,000	47,000	46,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		38,000	200,000	Normal
▪ Nowshera			53,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			46,000	150,000	Low Flood (R)
▪ Munda Head Works ^^^	150,000		13,000	150,000	Normal
▪ Charsadda Road Bridge			6,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	105,000	100,000	225,000	Low Flood (R)
▪ Rasul	850,000	76,000	76,000	225,000	Low Flood (S)
<b>River Chenab</b>					
▪ Marala	1,100,000	255,000	250,000	400,000	High Flood (R)
▪ Khanki	1,100,000	249,000	243,000	400,000	High Flood (R)
▪ Qadirabad	900,000	207,000	186,000	400,000	Medium Flood (R)
▪ Trimmu	645,000	37,000	23,000	450,000	Normal
▪ Panjnad	700,000	41,000	27,000	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		31,000	150,000	Normal
▪ Shahdara	250,000		34,000	135,000	Normal
▪ Balloki	225,000	49,000	23,000	135,000	Normal
▪ Sidhnai	150,000	29,000	14,000	90,000	Normal
<b>River Sutlej</b>					
▪ Ganda Singh Wala			33		Normal
▪ Suleimanki	325,000	16,000	3,000	175,000	Normal
▪ Islam	300,000	8,000	7,000	175,000	Normal

**Live Storage (MAF) †**

Reservoir Elevation ( in Feet Above Mean Sea Level )		2020	2019	2018	Maximum	Today	Last Year
<b>Tarbela:</b>	Maximum Conservation Level:	1550.00	1550.00	1550.00	5.980	5.980	6.049
	Minimum Operating Level:	1392.00					
<b>Chashma:</b>	Maximum Conservation Level:	649.00	643.50	648.50	0.278	0.089	0.253
	Minimum Operating Level:	637.00					
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1242.00	1218.70	7.356	7.356	5.590
	Minimum Operating Level:	1050.00					
<b>Total Live Storage</b>					<b>13.614</b>	<b>13.425</b>	<b>11.892</b>

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	19.0 °C	30.7 °C
<b>Minimum</b>	9.3 °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)
<b>A.</b>		
<b>Sindh</b>		
1.	Karachi	(Faisal Base=231, Sarjani Town=195, Kemari=170, North Karachi=168, Nazimabad=162, Masroor Base=154, Saddar=142, Landhi=126, Landhi=126, Airport=122, University Road=105 & Saadi Town=105(each) and Gulshan- e-Hadeed=49).
2.	Moin-jo-Daro	44
3.	Shaheed Benazeerabad	34
4.	Sukkur	15
<b>B.</b>		
<b>Azad Jammu &amp; Kashmir</b>		
1.	Kotli	192
2.	Palandri	112
3.	Rawalakot	78
4.	Bandi Abbaspur	48
5.	Hajira	35
6.	Nauseri	32
7.	Garhi Dopatta	31
8.	Chakothe	25
9.	Tandali	23
10.	Chattar Kallas	19
11.	Muzaffarabad	(City=18 & Airport=16)
12.	Haraman	12
<b>C.</b>		
<b>Punjab</b>		
1.	Sialkot	(Cantt=159 & Airport=85)
2.	Kallar	123
3.	Mangla & Shadiwal	92 each
4.	Jhelum	84
5.	Narowal	81
6.	Lahore	(Taj Pura=74, Lukshmi=71, Jail Road=67, Johar Town=63, Township=58, Gulberg=57, Gulshan e Ravi=56, Airport=55, Mughal Pura=53, Upper Mall=48, Shahi Qilla=47, Shahdara=43, Punjab University=39, Iqbal Town=28, Misri Shah=21& Samanabad=12)
7.	Hafizabad	49
8.	Toba Teg Singh	46
9.	Mandi Bahauddin	37
10.	Gujrat	32
11.	Okara	31
12.	Sargodha & Risalpur	29 each
13.	Rohtas	28
14.	Sehrkakota	27
15.	Kasur	25
16.	Daulatnagar	21
17.	Gujranwala	20
18.	Ravi syphon	17
19.	Sahiwal	15
20.	Jhang	14

<b>D.</b>	<b>Khyber Pakhtunkhwa</b>	
1.	Chakdara	88
2.	Cherat	68
3.	Malam Jabba & Buner	51 each
4.	Besham	46
5.	Kakul	39
6.	Balakot	33
7.	Pattan, Saidu Sharif & Lower Dir	22 each
8.	Oghi	17
<b>E.</b>	<b>Balochistan</b>	
1.	Barkhan	37
<b>F.</b>	<b>Gilgit Baltistan</b>	
1.	Bagrote	18
2.	Bunji	14
3.	Gilgit	12