



**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 21, 2020**

Except for River Indus at **Chashma** (flowing in **Low Flood** with rising trend at the reporting time) all other main rivers (Jhelum, Chenab, Ravi & Sutlej) are flowing normal. **Annexure-I** depicts the inflows/outflows of main rivers at important control structures and major reservoirs (**Tarbela, Mangla and Chashma**) water levels & storage position.

2. As of 0600 hours today, **Tarbela Reservoir** has attained a level of **1538.93 feet** against its Maximum Conservation Level of **1550.00 feet** whereas **Mangla Reservoir** is at **1237.75 feet** (Storage space of only **4.25 feet** is left). Keeping in view much higher water levels both in Tarbela & Mangla and meteorological conditions predicted by FFD, Lahore, in the catchment areas of rivers Indus & Jhelum including their tributaries during the next few days, strict surveillance, effective monitoring and calculated impounding/ releases as per prevailing SOPs needs to be ensured by Dam Management Authorities (Tarbela & Mangla), Mangla Flood Mitigation Committee (FMC), IRSA and Flood Forecasting Division, Lahore. Timely dissemination of flood warnings, in case of any abnormal outflows, to the concerned District Administrations and local population in the downstream areas may also be ensured by the concerned departments.


3. Yesterday's **Monsoon DEPRESSION** over North Orissa (India) has moved Westwards and presently located over Eastern Madhya Pradesh, India (close to Pakistan). **Seasonal Low** continues to persist over Western Balochistan with Westerly Wave moved away Eastwards (away from Pakistan). Weak **moist currents** from Arabian Sea & Bay of Bengal are penetrating into upper parts of Pakistan upto 5000 feet. **Strong moist currents** from both sources are likely to penetrate into the Southern parts of Pakistan.

4. For the ensuing 24 hours, FFD, Lahore, has predicted scattered thunderstorm/ rain over Punjab, Sindh, Khyber Pakhtunkhwa and Eastern Balochistan including upper catchments of all major Rivers. **Low to Medium** flood flows are also expected in the Hill Torrents of D.G. Khan Division during the same period. Last 24 hours prominent rainfall events may be seen at **Annexure-II**.

5. **Weather Outlook (22<sup>nd</sup> to 25<sup>th</sup> August 2020):**

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

6. 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 **Monsoon DEPRESSION** presently over Eastern 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 21-08-2020

**Discharges at Important River Sites  
August 21, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
<b>River Indus</b>					
▪ Tarbela Reservoir	1,500,000	239,000	158,000	650,000	Normal
▪ Kalabagh	950,000	230,000	222,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	276,000	269,000	650,000	Low Flood(R)
▪ Taunsa <sup>^</sup>	1,000,000	175,000	149,000	650,000	Normal
▪ Guddu	1,200,000	125,000	100,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	88,000	38,000	700,000	Normal
▪ Kotri	875,000	43,000	4,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		36,000	200,000	Normal
▪ Nowshera			49,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			12,000	150,000	Normal
▪ Munda Head Works <sup>^^^</sup>	150,000		7,000	150,000	Normal
▪ Charsadda Road Bridge			6,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	25,000	8,000	225,000	Normal
▪ Rasul	850,000	13,000	12,000	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	82,000	56,000	400,000	Normal
▪ Khanki	1,100,000	51,000	44,000	400,000	Normal
▪ Qadirabad	900,000	51,000	33,000	400,000	Normal
▪ Trimmu	645,000	50,000	36,000	450,000	Normal
▪ Panjnad	700,000	15,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		18,000	150,000	Normal
▪ Shahdara	250,000		24,000	135,000	Normal
▪ Balloki	225,000	54,000	25,000	135,000	Normal
▪ Sidhnai	150,000	18,000	3,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	19,000	6,000	175,000	Normal
▪ Islam	300,000	2,000	1,000	175,000	Normal

**Live Storage (MAF) <sup>+</sup>**

Reservoir Elevation ( in Feet Above Mean Sea Level )		2020	2019	2018	Maximum	Today	Last Year	
<b>Tarbela:</b>	Maximum Conservation Level:	1550.00	1538.93	1550.00	1550.00	5.980	5.350	6.049
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	646.60	645.70	647.50	0.278	0.173	0.145
	Minimum Operating Level:	637.00						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1237.75	1215.20	1171.35	<u>7.356</u>	<u>7.019</u>	<u>5.346</u>
	Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>						<b>13.614</b>	<b>12.542</b>	<b>11.540</b>

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	26.1 °C	23.7 °C
<b>Minimum</b>	15.2 °C	11.0 °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**

<b>Sr. No.</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
<b>A</b>		
<b>Khyber Pakhtunkhwa</b>		
1.	Malam Jabba	82
2.	Buner	47
3.	Shinkiari	32
4.	Kakul	30
5.	Balakot	23
6.	Mohmand Dam	20
7.	Dir	15
8.	Bannu	14
9.	Oghi	09
10.	Chakdara, Cherat & Besham	07 each
11.	Rashid Abad	05
<b>B</b>		
<b>Punjab</b>		
1.	Faisalabad	64
2.	Jhang	44
3.	Okara	38
4.	Sialkot	34
5.	Multan	32
6.	Gujrat & Rohtas	31
7.	Gujranwala	26
8.	Sahiwal	20
9.	Toba Teg Singh	17
10.	Kasur	14
11.	Kot Addu	12
12.	Sargodha & Haraman	11 each
13.	Kallar	10
14.	Narowal	08
15.	Hafizabad & Joharabad	07 each
16.	Shorkot & Bahawalpur	06 each
<b>C</b>		
<b>Azad Jammu &amp; Kashmir</b>		
1.	Muzaffarabad	(Airport=34 & City=11)
2.	Garhi Dopatta	27
3.	Chattar Kallas	17
4.	Brarkot	15
5.	Domel & Tandali	12 each
6.	Chakothei & Bandi Abbaspur	08 each

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