



**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  
WEDNESDAY, AUGUST 19, 2020**

Riverine flow condition continues to be "Normal". **Annexure-I** depicts the same indicating inflows/outflows of main rivers besides reservoir storages and levels.

2. By virtue of healthy inflows during the last 15 days much enhanced filling of Tarbela Reservoir has been witnessed (**52.45 feet in Total**). Tarbela Dam Management Authorities are exercising stringent monitoring of dam and its instrumentation in line with the recommendations of its 6<sup>th</sup> Periodic Inspection done in 2017-18.

3. **Mangla dam reservoir is just 5.20 feet** away from attaining its MCL of **1242.00 feet**). Strict surveillance, continuous monitoring and calculated impounding/ releases would be mandatory in view of predicted meteorological conditions by FFD, Lahore over river Jhelum (upstream Mangla catchment) during August 19-21, 2020.

4. A fresh **Monsoon Low** has developed over Northwest Bay of Bengal while the earliest one over Southern Chhattisgarh (India) has dissipated as reported by FFD, Lahore. **Moderate moist currents** both from the Arabian Sea and Bay of Bengal are penetrating into upper parts of Pakistan upto 5000 feet with **Seasonal Low** continuous to prevail over Northeastern Balochistan. Trough of **Westerly Wave** earlier over Northeastern Afghanistan today lies over Northern parts of Pakistan.


5. **Rainfall Prediction (Next 24 Hours):**

- Fairly **Widespread** thundershower/ rain is likely to occur over Islamabad, upper Punjab (**Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad & Sahiwal Divisions**), Khyber Pakhtunkhwa (**Chitral, Dir, Swat, Kohistan, Shangla, Abbottabad, Peshawar, Mardan, Charsadda & Kohat Districts**) and **Kashmir** including upper catchments of **Rivers Jhelum, Chenab, Ravi & Sutlej**.
- **Heavy to Very Heavy Falls** are also expected in **Islamabad, Rawalpindi, Gujranwala, Lahore & Sargodha** Districts of Punjab, **Abbottabad, Charsadda, Mardan, Peshawar & Nowshera** Districts of KP and Kashmir, in addition to scattered thunderstorm/ rain over the upper catchment of river Indus and isolated thunderstorm/ rain over **Bahawalpur & D.G Khan Divisions** (Punjab), Northeastern Balochistan, & Southeastern Sindh. Last 24 hours rainfall events reported by the FFD, Lahore, are depicted in **Annexure-II**.

6. **Rainfall Prediction (Next 48 Hours):**

- Fairly **Widespread** thundershower/ rain has been predicted by FFD, Lahore, over **Islamabad**, upper Punjab (**Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad & Sahiwal Divisions**), Khyber Pakhtunkhwa (**Chitral, Dir, Swat, Kohistan, Shangla, Abbottabad, Peshawar, Mardan, Charsadda & Kohat Districts**), **Kashmir** and upper catchments of **Rivers Jhelum, Chenab & Ravi**.
- **Heavy to Very Heavy Falls** may also occur over **Islamabad, Rawalpindi, Gujranwala, Lahore & Sargodha** (Punjab), **Abbottabad, Charsadda, Mardan, Peshawar & Nowshera** Districts (KP) and **Kashmir**. Furthermore, scattered thundershowers/ rain is also likely over **Bhakkar, Layyah, Multan, D.G Khan, Bahawalpur** districts (Punjab), **Bannu, D.I Khan & Waziristan** Districts (KP), **Zhob, Musakhel and Barkhan** Districts (Balochistan) including upper catchments of **Rivers Indus & Sutlej**.

7. **Flood Prediction For Next 48 Hours:** Under the influence of the predicted weather conditions:
- Nullahs of **Rivers Chenab & Ravi** are expected to experience **Medium to High Flood** situation;
  - River Jhelum at **Mangla** (upstream) may experience peaks of **Medium Flood**;
  - Local Nullahs/ Streams of KP and **Kashmir** are likely to experience Flash Flooding;
  - Rawalpindi, Gujranwala & Lahore Divisions of Punjab may experience Urban Flooding.
8. Meteorological conditions over Pakistan are very active at present with prediction of **Heavy to Very Heavy** rains over most parts of the country including the upper catchments of all major rivers. In order to ensure effective response & relief in case of any emergency, Round-the-Clock and extensive monitoring is being done by PMD and FFD, Lahore.



( 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 19-08-2020

**Discharges at Important River Sites  
August 19, 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	246,000	240,000	650,000	Normal
▪ Kalabagh	950,000	207,000	199,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	173,000	165,000	650,000	Normal
▪ Taunsa <sup>^</sup>	1,000,000	171,000	146,000	650,000	Normal
▪ Guddu	1,200,000	134,000	100,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	91,000	39,000	700,000	Normal
▪ Kotri	875,000	61,000	23,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		33,000	200,000	Normal
▪ Nowshera			43,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			13,000	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	50,000	9,000	225,000	Normal
▪ Rasul	850,000	8,000	5,000	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	97,000	67,000	400,000	Normal
▪ Khanki	1,100,000	71,000	63,000	400,000	Normal
▪ Qadirabad	900,000	62,000	48,000	400,000	Normal
▪ Trimmu	645,000	27,000	12,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		17,000	150,000	Normal
▪ Shahdara	250,000		29,000	135,000	Normal
▪ Balloki	225,000	35,000	2,000	135,000	Normal
▪ Sidhnai	150,000	22,000	7,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	19,000	5,000	175,000	Normal
▪ Islam	300,000	1,000	NIL	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	1534.93	1549.44	1548.50	5.980	5.131	6.017
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	646.80	642.00	647.40	0.278	0.179	0.058
	Minimum Operating Level:	637.00						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1236.80	1213.65	1170.00	<u>7.356</u>	<u>6.945</u>	<u>5.238</u>
	Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>						<b>13.614</b>	<b>12.255</b>	<b>11.313</b>

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	35.7 °C	27.8 °C
<b>Minimum</b>	21.3 °C	17.0 °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 Punjab</b>		
1.	Gujranwala	53
2.	Rohtas	51
3.	Mandi Bahauddin	40
4.	Jhelum	38
5.	Islamabad	(Shamsabad=34, New Airport & Bokra=33 (each), Saidpur=31, Golra=29, Zeropoint=26 & Chaklala Airbase=21)
6.	Hafizabad	33
7.	Phulra & Mangla	31 each
8.	Kallar	25
9.	Attock	20
10.	Sialkot & Shadiwal	18 each
11.	Tandali	17
12.	Gujrat	16
13.	Haraman	10
14.	Chakwal	07
15.	Garhiala, Murree & Ravi syphon	06 each
<b>B Azad Jammu &amp; Kashmir</b>		
1.	Domel	50
2.	Kotli	47
3.	Muzaffarabad	(Airport=41 & City=25)
4.	Brarkot	15
5.	Sehrkakota	13
6.	Hajira	12
7.	Palandri	09
8.	Nauseri	08
9.	Bandi Abbaspur	06
10.	Garhi Dopatta, Bhoun & Rawalakot	05 each
<b>C Khyber Pakhtunkhwa</b>		
1.	Patten	43
2.	Daggar	41
3.	Saidu Sharif	38
4.	Shinkiari	36
5.	Buner	27
6.	Kakul	19
7.	Lower Dir	12
8.	Rashid Abad (Kalpani) & Balakot	10 each
9.	Malam Jabba & Mohmand Dam	09 each
10.	Kalam & Oghi	06 each
11.	Chakdara	05
<b>D Balochistan</b>		
1.	Lasbela	16

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