



**DAILY WEATHER & FLOOD SITUATION REPORT**  
**FRIDAY, AUGUST 14, 2020**

All main rivers (Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing with "Normal Flow Condition". The discharges (inflows/outflows) of the main rivers at important control structures alongwith water levels and storage position of major reservoirs (Tarbela, Chashma & Mangla) as of 0600 hours today may be seen at **Annexure-I**.

2. **Tarbela Reservoir** has attained water level of **1518.54 feet** i.e. **31.46 feet** below its Maximum Conservation Level (MCL) of **1550.00 feet**, whereas **Mangla Reservoir** is at an elevation of **1234.90 feet** (**7.10 feet** below its MCL of **1242.00 feet**). In view of higher water level in **Mangla reservoir**, ultra vigilance is required by the Mangla Dam Management, Flood Mitigation Committee (FMC), IRSA and FFD, Lahore, to ensure dam safety and to regulate surplus flood water as a consequence of any flood generating meteorological activity so as to avoid to create flood like situation in downstream area.

3. Due to torrential rains in Khirther Hills Range on **6<sup>th</sup> - 8<sup>th</sup> August 2020**, flash flooding generated in Gaj Nai and other local nullahs had breached **Gaj Diversion Bund** in reach **RD 11+000 to RD 15+000** and **F.P. Bund** at five locations (**RD 40+000, RD 43+000, RD 44+000, RD 52+000 & RD 75+000**). According to Sindh Irrigation Department, four (04) breaches have since been plugged, whereas work on plugging the breach at **RD 52+000** is underway. Relief activities by PDMA/DDMAs with the assistance of Pak Army are in progress.

4. The relief activities in flood affected areas of Balochistan province are also being carried out by the concerned provincial government organizations with the help of Pak Army.


**Lai Nullah Flood Situation**

5. The twin cities of Islamabad- Rawalpindi experienced heavy downpour during the last 06 hours (**0320 - 0900 hours**) which generated high flood flows in Lai Nullah. The nullah attained **18.40 feet gauge level (Alert Position)** at **Kattarian Bridge** at 0510 hours and **14.00 feet gauge level (pre-alert level position)** at **Gawalmandi Bridge** at 0530 hours this morning. However, rainfall has stopped and the situation has become normal.

6. The trough of Westerly Wave yesterday over Northern parts of Afghanistan today lies over Northern parts of Pakistan with **Seasonal Low** lying over Northern Balochistan. A **Monsoon Low** has developed over North-western Bay of Bengal. The **moist currents** from **Arabian Sea & Bay of Bengal** are penetrating into upper parts of Pakistan upto 7000 feet.

7. FFD, Lahore, has predicted scattered thunderstorm/rain with **isolated heavy falls** over **Rawalpindi & Gujranwala Divisions** (Punjab) and **Bannu, Kohat & D.I. Khan Divisions** (Khyber Pakhtunkhwa) including the upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej during the next 24 hours. Isolated thunderstorm/rain may also occur over Punjab (**Sargodha, Lahore, Faisalabad, Bahawalpur & D.G. Khan Divisions**), South & South-eastern Sindh, rest of Khyber Pakhtunkhwa and North-eastern Balochistan besides the upper catchment of River Indus during the same period. Significant rainfall events during the past 24 hours as reported by FFD, Lahore, may be seen at **Annexure-II**.

8. Round-the-clock active monitoring of prevailing weather system is being carried out by the Pakistan Meteorological Department (PMD) and is keeping all concerned fully abreast of the situation through 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 14-08-2020

**Discharges at Important River Sites  
August 14, 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	228,000	124,000	650,000	Normal
▪ Kalabagh	950,000	175,000	167,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	177,000	170,000	650,000	Normal
▪ Taunsa <sup>^</sup>	1,000,000	174,000	148,000	650,000	Normal
▪ Guddu	1,200,000	130,000	97,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	96,000	50,000	700,000	Normal
▪ Kotri	875,000	78,000	43,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		35,000	200,000	Normal
▪ Nowshera			45,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			10,000	150,000	Normal
▪ Munda Head Works <sup>^^^</sup>	150,000		8,000	150,000	Normal
▪ Charsadda Road Bridge			7,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	22,000	10,000	225,000	Normal
▪ Rasul	850,000	3,000	NIL	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	93,000	62,000	400,000	Normal
▪ Khanki	1,100,000	50,000	42,000	400,000	Normal
▪ Qadirabad	900,000	38,000	21,000	400,000	Normal
▪ Trimmu	645,000	32,000	18,000	450,000	Normal
▪ Panjnad	700,000	12,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		15,000	150,000	Normal
▪ Shahdara	250,000		27,000	135,000	Normal
▪ Balloki	225,000	48,000	16,000	135,000	Normal
▪ Sidhnai	150,000	19,000	3,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	15,000	1,000	175,000	Normal
▪ Islam	300,000	NIL	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	1518.54	1547.00	1539.23	5.980	4.262	5.878
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	640.20	641.50	641.00	0.278	0.027	0.049
	Minimum Operating Level:	637.00						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1234.90	1207.65	1164.90	<u>7.356</u>	<u>6.798</u>	<u>4.830</u>
	Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>						<b>13.614</b>	<b>11.087</b>	<b>10.757</b>

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	34.0 <sup>0</sup> C	32.6 <sup>0</sup> C
<b>Minimum</b>	18.0 <sup>0</sup> C	19.0 <sup>0</sup> 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

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

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**Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	Islamabad	Golra = 114, Saidpur = 91, New Airport = 57, Zeropoint = 33, Shamsabad = 19, Bokra = 18 and Chaklala = 14
2.	Sialkot	Cantt = 40 & Airport = 12
3.	Gujranwala	36
4.	Bhoun	35
5.	Tandali	24
6.	Chakwal	23
7.	Attock	20
8.	Haraman	13
9.	Mandi Bahauddin	12
10.	Murree & Phulra	11
11.	Ravi Syphon	07
12.	Jhelum & Kallar	05
<b>B.</b>	<b>Azad Jammu &amp; Kashmir</b>	
1.	Muzaffarabad	Airport= 27 & City=25
2.	Kotli	20
3.	Brarkot	18
4.	Bandi Abbaspur	17
5.	Domel	16
6.	Palandri	09
<b>C</b>	<b>Khyber Pakhtunkhwa</b>	
1.	Balakot	22
2.	Mohmand Dam	09
3.	Daggar	08

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