



**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
MONDAY, AUGUST 31, 2020**

River Indus in "Chashma-Taunsa", Taunsa-Guddu" & "Guddu-Sukkur" Reaches and River Chenab at Trimmu are flowing in **Low Flood**. All other main rivers (Jhelum, Ravi & Sutlej) are flowing normal. Discharges (inflows/outflows) of main rivers at important control structures alongwith water levels and storage position of major reservoirs (Tarbela, Mangla & Chashma) as of 0600 hours today have been indicated at **Annexure-I**.

2. **Tarbela Reservoir** continues to maintain its Maximum Conservation Level (MCL) of **1550.00 feet** since **28th August 2020**, whereas **Mangla Reservoir** is at an elevation of **1241.15 feet (0.85 feet below its MCL of 1242.00 feet)** after attaining its MCL on **28th August 2020**. Releases have been made to accommodate increased inflows upstream Mangla to avoid any flooding downstream. **The dam operating authorities alongwith FMC of Mangla, IRSA, PMD/FFD, Lahore are advised to exercise utmost care and vigilance in reservoir's operation strictly following SOPs and associated Dam Safety Guidelines.**

3. In the upstream catchment areas of Rawal and Simly Dams in Islamabad, heavy rains have resulted in spillway operation. Present levels of Rawal and Simly Dams are **1751.50 feet Vs MCL: 1752.00 feet** and **2314.75 feet Vs MCL: 2315.00 feet** respectively

4. **Monsoon Low** earlier reported over Western Madhya Pradesh (India) today lies over Western Rajasthan (India) & adjoining areas. Moderate to strong **moist currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 7000 feet with **Seasonal Low** persisting over Northeastern Balochistan. Yesterday's Westerly Wave Trough over Northern parts of Iran today lies over Northern parts of Afghanistan.

5. For the ensuing 24 hours, FFD, Lahore, has predicted widespread thunderstorm/rain with **Heavy to Very Heavy Falls** over Punjab (**Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & D.G. Khan Divisions**), Khyber Pakhtunkhwa (**Malakand, Hazara & Peshawar Divisions**) including upper catchments of Rivers **Kabul, Indus & Jhelum**. Scattered wind-thundershower rain with isolated **Heavy Falls** may also occur over **Multan Division** (Punjab), **Kohat, Bannu & D.I. Khan Divisions** (Khyber Pakhtunkhwa), Southeastern Sindh & Eastern Balochistan, besides, upper catchments of Rivers **Chenab, Ravi & Sutlej** during the same period. Sharp peaks upto **Very High Flood** are expected in River Jhelum at Mangla (inflows) during the **next 36 hours**. Last 24 hours prominent rainfall events may be seen at **Annexure-II**.


Significant Flood Warning For The Next 48 Hours

6. FFD, Lahore, has reported that the monsoon has become active over **Punjab, Khyber Pakhtunkhwa & Kashmir** producing widespread thunderstorm/rains and is likely to persist over the areas during the **next 48 hours**. As a consequence, there is a **High probability** of **Heavy to Very Heavy** rainfall over the catchment areas of **River Kabul & its tributaries** alongwith **Hill Torrents of D.G. Khan Division** which may generate **Medium to High Flood** situation.

Precautionary measures by all concerned organizations:

7. Foregoing Hydro-Meteorological situation in view, all concerned authorities, especially PDMAs, DDMA's, Districts Administration & Provincial Irrigation Departments are strictly advised to remain **Fully Alert**, watch the situation closely and take all necessary precautionary measures well in time so as to avoid loss of precious human lives and damage to private & public property.

8. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD)/FFD, Lahore, especially with respect to tracking further movement, intensity and impact of **Monsoon Low** presently lying over Western Rajasthan (India) & adjoining areas. FFD, Lahore, is 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 31-08-2020

**Discharges at Important River Sites
August 31, 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	170,000	212,000	650,000	Normal
▪ Kalabagh	950,000	229,000	221,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	305,000	300,000	650,000	Low Flood (F)
▪ Taunsa [^]	1,000,000	322,000	311,000	650,000	Low Flood (R)
▪ Guddu	1,200,000	234,000	229,000	700,000	Low Flood (R)
▪ Sukkur ^{^^}	900,000	208,000	205,000	700,000	Low Flood(R)
▪ Kotri	875,000	87,000	86,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		27,000	200,000	Normal
▪ Nowshera			41,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			10,000	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	35,000	20,000	225,000	Normal
▪ Rasul	850,000	38,000	38,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	66,000	61,000	400,000	Normal
▪ Khanki	1,100,000	76,000	71,000	400,000	Normal
▪ Qadirabad	900,000	78,000	60,000	400,000	Normal
▪ Trimmu	645,000	179,000	166,000	450,000	Low Flood (R)
▪ Panjnad	700,000	54,000	39,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		11,000	150,000	Normal
▪ Shahdara	250,000		15,000	135,000	Normal
▪ Balloki	225,000	44,000	18,000	135,000	Normal
▪ Sidhnai	150,000	29,000	13,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	19,000	6,000	175,000	Normal
▪ Islam	300,000	3,000	1,000	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	1550.00	1550.00	5.980	5.980	6.049
	Minimum Operating Level:	1392.00					
Chashma:	Maximum Conservation Level:	649.00	639.00	649.00	0.278	0.010	0.278
	Minimum Operating Level:	637.00					
Mangla:	Maximum Conservation Level:	1242.00	1241.15	1220.00	7.356	7.287	5.680
	Minimum Operating Level:	1050.00					
Total Live Storage					13.614	13.277	12.007

Skardu Temperature	Today 2020	Last year 2019
Maximum	28.2 °C	27.1 °C
Minimum	13.2 °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)
A.	SINDH	
1.	Chhor	82
2.	Mithi	73
3.	Mirpur Khas	37
4.	Moin-jo-Daro	34
5.	Badin	29
6.	Thatta	15
7.	Jacobabad	08
8.	Padidan	07
9.	Larkana & Hyderabad	06 each
B.	PUNJAB	
1.	Lahore	(Shahdara=76, Shahi Qilla=70, Gulshan e Ravi=68, Lukshmi=21 & Misri Shah=15)
2.	Islamabad	(Saidpur=50, Bokra=16, New Airport=11, Shamsabad & Golra=10 each and Zeropoint=07)
3.	Mangla	44
4.	Rohtas	35
5.	Jhelum	34
6.	Barnala	29
7.	Kot Addu	23
8.	DG Khan	(Fort Munro=18, Mari=11 & Vehova=07)
9.	Okara	18
10.	Sialkot	16
11.	Daulatnagar	15
12.	Murree	07
13.	Phulra	06
C.	KHYBER PAKHTUNKHWA	
1.	Kakul	38
2.	Besham	21
3.	Peshawar	10
D.	AJ&K	
1.	Garhi Dopatta	21
2.	Chattar Kallas & Kotli	09 each
3.	Hajira	07
4.	Nauseri	06
E.	BALUCHISTAN	
1.	Sibbi	19
2.	Loralai	16

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