



**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
THURSDAY, AUGUST 20, 2020**

River Indus at **Kalabagh** is flowing in **Low Flood** with rising trend at the reporting time today. All other main rivers (Jhelum, Chenab, Ravi & Sutlej) are flowing normal. 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. Water level in **Tarbela Reservoir** is **1536.93 feet** against Maximum Conservation Level of **1550.00 feet** whereas **Mangla Reservoir** is at an elevation of **1237.35 feet** i.e. storage space of just **4.65 feet** is left. In the context of much higher water level at Mangla Reservoir and predicted meteorological conditions by FFD, Lahore in catchment area of river Jhelum and its tributaries (upstream Mangla), strict surveillance, effective monitoring and calculated impounding/ releases as per existing SOPs may be ensured by Mangla Dam Management, Flood Mitigation Committee (FMC), IRSA and Flood Forecasting Division, Lahore. Timely dissemination of flood warning of any abnormal flow to the District Administration and local population in the downstream areas may also be ensured.

3. As reported by FFD, Lahore, yesterday's **Monsoon Low** over Northwestern Bay of Bengal has intensified into **DEPRESSION** and today lies over Northern Orissa (India). **Moderate moist currents** from Arabian Sea & Bay of Bengal are penetrating into upper parts of Pakistan upto 5000 feet with **Seasonal Low** still persists over Northeastern Balochistan. Yesterday's trough of **Westerly Wave** continues to prevail over Northern parts of Pakistan.

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

- Fairly **Widespread** thundershower/ rain is likely to occur over Punjab (**Sargodha, Multan & DG Khan Divisions**) and Khyber Pakhtunkhwa (**Peshawar, Kohat, Bannu & D.I. Khan Divisions**).
- Scattered thunderstorm/ rain is also expected over **Rawalpindi, Gujranwala, Lahore, Sahiwal & Bahawalpur Divisions** of the Punjab **Malakand & Hazara Divisions** of Khyber Pakhtunkhwa, Southeastern Sindh and Northeastern Balochistan including the upper catchments of all the major Rivers. Last 24 hours significant rainfall events may be seen at **Annexure-II** indicating sporadic rain over Lahore.

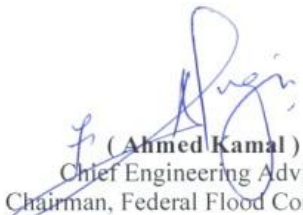
5. **Weather Outlook from 22nd to 25th August 2020:**

- Under the influence of prevailing weather system, **Widespread** thunderstorm/rain with **Heavy to Very Heavy Falls** has been predicted over **Sindh & Eastern Balochistan**.

6. **Flood Prediction For Next 48 Hours:** Under the influence of the predicted metrological conditions, local nullahs i.e. tributaries of **Rivers Chenab & Ravi** are likely to attain **Low to Medium Flood Levels** during the next 24-48 hours.

- River Jhelum at **Mangla** (upstream) may experience peaks of **Low to Medium Flood**;
- **Local Nullahs/ Streams of KP** and **Hill Torrents of D.G. Khan Division** are likely to generate **flash flood flows**;
- **Urban Flooding in Rawalpindi & Lahore Divisions** of Punjab province.

7. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) especially further movement and intensity of **Depression** presently over North Orissa (India) and its impact on Pakistan's weather System. 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 20-08-2020

**Discharges at Important River Sites
August 20, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	263,000	149,000	650,000	Normal Low Flood (R)
▪ Kalabagh	950,000	282,000	274,000	650,000	
▪ Chashma Reservoir	1,000,000	252,000	247,000	650,000	
▪ Taunsa ^	1,000,000	168,000	143,000	650,000	
▪ Guddu	1,200,000	127,000	96,000	700,000	
▪ Sukkur ^^	900,000	89,000	39,000	700,000	
▪ Kotri	875,000	48,000	8,000	650,000	
River Kabul					
▪ Warsak	540,000		36,000	200,000	Normal
▪ Nowshera			45,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge	150,000		12,000	150,000	Normal
▪ Munda Head Works ^^^			8,000	150,000	Normal
▪ Charsadda Road Bridge			7,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	22,000	10,000	225,000	Normal
▪ Rasul	850,000	21,000	20,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	88,000	62,000	400,000	Normal
▪ Khanki	1,100,000	65,000	57,000	400,000	Normal
▪ Qadirabad	900,000	66,000	48,000	400,000	Normal
▪ Trimmu	645,000	29,000	15,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		11,000	150,000	Normal
▪ Shahdara	250,000		30,000	135,000	Normal
▪ Balloki	225,000	41,000	10,000	135,000	Normal
▪ Sidhnai	150,000	23,000	7,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	17,000	4,000	175,000	Normal
▪ Islam	300,000	1,000	NIL	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	1536.93	1550.00	1550.00	5.980	6.049
	Minimum Operating Level:	1392.00					
Chashma:	Maximum Conservation Level:	649.00	646.70	643.00	648.00	0.278	0.078
	Minimum Operating Level:	637.00					
Mangla:	Maximum Conservation Level:	1242.00	1237.35	1214.50	1170.75	<u>7.356</u>	<u>5.297</u>
	Minimum Operating Level:	1050.00					
Total Live Storage					13.614	12.404	11.424

Skardu Temperature	Today 2020	Last year 2019
Maximum	31.8 °C	23.0 °C
Minimum	19.0 °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

Sr. No.	City/Observatory	Rainfall (mm)
A Punjab		
1.	Lahore	[Lukshmi=207, Taj Pura=192, Shahdara=171, Gulshan e Ravi=169, Samanabad=167, Shahi Qilla=160, Upper Mall=159, Township=152, Punjab University=147, Iqbal Town=142, Misri Shah=132, Jail Road=125, Johar Town=123, Airport=104, Gulberg=95, Mughal Pura=93],
2.	Hafizabad	155
3.	Joharabad	97
4.	Jhang	93
5.	Kasur	81
6.	Faisalabad	72
7.	Mandi Bahauddin	60
8.	Chakwal	57
9.	Gujranwala	54
10.	Sargodha	49
11.	Bhoun	47
12.	Kallar	46
13.	Narowal	42
14.	Jhelum	41
15.	Gujrat	38
16.	Islamabad	(Chaklala=36, Saidpur=29, Golra=19, Zeropoint=18, Shamsabad & New Airport & Bokra=13 each)
17.	Noorpur Thal	36
18.	Mangla & Shadiwal	32
19.	Sialkot	25
20.	Bhakkar & Ravi Syphon	21
21.	Alexandra Bridge & Mianwali	15
22.	Aik Nullah (Ura)	12
23.	Okara	11
B Azad Jammu & Kashmir		
1.	Barnala	37
2.	Kotli	24
3.	Palandri	12
4.	Muzaffarabad	10
C Khyber Pakhtunkhwa		
1.	DI Khan	45
2.	Balakot	42
3.	Pattan	27
4.	Peshawar	19
5.	Kohat	15
6.	Daggar	14
7.	Tanda Dam	11

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