



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
TUESDAY AUGUST 04, 2020

At present all main rivers are flowing in "Normal Flow Condition". Today's water levels and storage position of major reservoirs (Tarbela, Chashma & Mangla), besides discharges (Inflows & Outflows) of all main rivers at important control structures throughout the Indus Basin are indicated in **Annexure-I**.

2. Owing to present temperature fluctuations, **Tarbela reservoir** has attained water level of only **1482.48 feet** as compared to **1538.00 feet** of last year. It still has **67.52 feet** space to attain **1550.00 feet (MCL)**. With present meteorological conditions 100% storage of Tarbela Dam would require judicious operation of its reservoir viz-a-viz the provincial indents. IRSA is cognizant of the situation and ensuring maximum storage.

3. Due to sufficient carryover water as well as good winter rains, this year water level in **Mangla reservoir** is much higher than that of the last year. Presently it has just **10.65 feet** storage space left to attain its MCL of **1242.00 feet**. On account of this and any likely high inflows that may be experienced from the upstream catchments due to meteorological activity, Mangla Dam Management, Flood Mitigation Committee (FMC), IRSA and FFD, Lahore are prepared to ensure dam regulation in accordance with the approved SOPs and dam safety guidelines.

4. FFD, Lahore has apprised about development of a **Monsoon Low** over North Bay of Bengal, which is likely to affect Southern parts of Pakistan from **06th-8th August, 2020**. Furthermore a Cyclonic Circulation (extension of monsoon low in upper air) has also developed over Southeastern Gujarat (India). As earlier stated Seasonal Low continues to prevail over Northeastern Balochistan bringing moist currents from the Arabian Sea which are penetrating into upper parts of the Pakistan upto 3000 feet.


5. For the following 24 hours FFD, Lahore, has predicted isolated thunderstorm/rain over Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore & D.G. Khan Divisions), Khyber Pakhtunkhwa (Malakand, Hazara, Peshawar, Kohat, Bannu & D.I. Khan Divisions) and Northeastern Balochistan including upper catchments of all the major Rivers. Prominent rainfall events of the past 24 hours as reported by FFD, Lahore, may be seen at **Annexure-II**.

6. **Weather Predictions (Medium Range):**

For 6th-8th August 2020 : Widespread rain/wind-thundershowers with **Isolated Heavy to Very Heavy Falls** has been predicted by FFD, Lahore, over Karachi, Hyderabad, Thatta, Badin, Tharparker, Umerkot, Mirpurkhas, Sanghar, Tando Allah Yar, Matiyari, Tando Muhammad Khan, Jamshoro, Dadu and Shaheed Benazirabad of **Sindh Province**.

For 7th-8th August 2020 : As per FFD, Lahore, scattered rain-thunder showers with **Isolated Heavy Falls** are expected over Bahawalpur & Rahim Yar Khan (Punjab), Khairpur, Sukkur, Larkana, Qambar Shahdad Kot, Jacobabad, Kashmore & Ghotki (Sindh) and Kalat, Jaffarabad, Jhalmagsi, Khuzdar, Lasbella & Awaran (Balochistan). Heavy downpour may cause **Urban Flooding** in Karachi & Hyderabad and flash flooding in the Hill Torrents of Eastern Balochistan on **07th & 08th August, 2020**.

7. Pakistan Meteorological Department (PMD) is actively monitoring the prevailing weather system on Round-the-clock basis with specific reference to further movement, intensity and impact of Monsoon Low presently over North Bay of Bengal and the Cyclonic Circulation on Pakistan. FFD, Lahore, is keeping all concerned informed on regular basis.


(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 04-08-2020

**Discharges at Important River Sites
August 04, 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	196,000	126,000	650,000	Normal
▪ Kalabagh	950,000	202,000	194,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	201,000	195,000	650,000	Normal
▪ Taunsa [^]	1,000,000	187,000	163,000	650,000	Normal
▪ Guddu	1,200,000	144,000	109,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	112,000	54,000	700,000	Normal
▪ Kotri	875,000	52,000	10,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		32,000	200,000	Normal
▪ Nowshera			53,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			12,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		9,000	150,000	Normal
▪ Charsadda Road Bridge			9,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	27,000	13,000	225,000	Normal
▪ Rasul	850,000	8,000	NIL	225,000	Normal
River Chenab					
▪ Marala	1,100,000	66,000	35,000	400,000	Normal
▪ Khanki	1,100,000	27,000	19,000	400,000	Normal
▪ Qadirabad	900,000	30,000	8,000	400,000	Normal
▪ Trimmu	645,000	21,000	6,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		9,000	150,000	Normal
▪ Shahdara	250,000		26,000	135,000	Normal
▪ Balloki	225,000	50,000	19,000	135,000	Normal
▪ Sidhnai	150,000	22,000	7,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	16,000	2,000	175,000	Normal
▪ Islam	300,000	2,000	NIL	175,000	Normal

Live Storage (MAF) ⁺

<u>Reservoir Elevation (in Feet Above Mean Sea Level)</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>Maximum</u>	<u>Today</u>	<u>Last Year</u>
Tarbela: Maximum Conservation Level: 1550.00	1482.48	1538.00	1519.12	5.980	2.553	5.368
Minimum Operating Level: 1392.00						
Chashma: Maximum Conservation Level: 649.00	645.70	641.00	642.70	0.278	0.145	0.040
Minimum Operating Level: 637.00						
Mangla: Maximum Conservation Level: 1242.00	1231.35	1195.50	1151.45	<u>7.356</u>	<u>6.522</u>	<u>4.058</u>
Minimum Operating Level: 1050.00						
Total Live Storage				13.614	9.220	9.466

Skardu Temperature	Today 2020	Last year 2019
Maximum	30.6 °C	32.1 °C
Minimum	17.3 °C	16.2 °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	Khyber Pakhtunkhwa	
1.	Daggar	52
2.	Buner	28
3.	Malam Jabba	23
4.	Kakul & Cherat	18 each
5.	Takhtbai	12
6.	Dir	09
7.	Oghi & Lower Dir	07 each
8.	Saidu Sharif & Balakot	05 each
B	Punjab	
1.	Lahore	45
2.	Gujranwala	17
3.	Sialkot & Jhelum	12 each
4.	Phulra	10
5.	Mandi Bahauddin	09
6.	Gujrat	08
C	Azad Jammu & Kashmir	
1.	Nauseri	15
2.	Mangla	13
3.	Barnala	06
4.	Panjera	05

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