



**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  
FRIDAY JULY 16, 2021**

At present, there is no riverine flood situation and all the main rivers of the Indus River System (IRS) are flowing normal. River inflows/ outflows at important locations alongwith major reservoirs water levels & storage positions may be seen at **Annexure-I**. The present Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **4.040 MAF (28.89%** of Maximum Combined Live Storage of **13.516 MAF)**.


2. A fresh trough of strong Westerly Wave lies over Northern parts of Iran with weak Seasonal Low persisting over Northern Balochistan. Weak moist currents from Bay of Bengal and Arabian Sea are penetrating into upper parts of the country up to 5000 feet, it is very likely to become **Strong** from **18<sup>th</sup> July 2021**. Yesterday's Monsoon low-pressure area over Southeastern parts of Maharashtra (India) today lies over Southern parts of Mumbai (India) as upper air circulation. Yesterday's upper air circulation over south of Karachi in Arabian Sea has become insignificant (Refer FFD Bulletin No.A032/21).

3. For the next 24 hours, FFD, Lahore has predicted isolated thunderstorm/rain over Punjab (D.G. Khan Division), Khyber Pakhtunkhwa (Kohat, Bannu & D.I. Khan Divisions) and Sindh including upper catchments of all the main rivers of IRS. Scattered thunderstorm/rain of moderate intensity with Isolated **Heavy Falls** may also occur over Balochistan province during the same period. Last 24 hours rainfall as reported by FFD, Lahore may be seen at **Annexure-II**.

4. **Significant Weather/ Rainfall and Flood Forecast from 19<sup>th</sup> to 21<sup>st</sup> July 2021:** According to FFD, Lahore, fairly widespread thunderstorm/rain with **Heavy Falls** at scattered places, **Very Heavy Falls** at isolated places and **Extremely Heavy Falls** at one or two places are expected over upper catchments of rivers Indus, Kabul, Jhelum and Chenab including Khyber-Pakhtunkhwa and Northern & Northeastern Punjab from **19<sup>th</sup> to 21<sup>st</sup> July, 2021** besides, scattered thunderstorm/rain over upper catchments of Rivers Ravi, Sutlej and Beas. As a result, **Medium to High Flood** is expected in rivers Indus, Kabul including their tributaries/nullahs and Hill Torrents of D.G. Khan Division, besides **High to Very High Flood** in river Jhelum (upstream) and river Chenab including its associated tributaries/nullahs from **20<sup>th</sup> July, 2021**.

5. **All concerned authorities are advised to remain ALERT, monitor the weather situation regularly and ensure fool proof precautionary measures to avoid any loss of precious human lives and damage to public & private properties.**

6. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) with specific reference to its impact over Pakistan. All concerned are being kept fully abreast of the situation by 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.

## **Distribution:**

4. Secretary, Ministry of Water Resources, Islamabad.
5. Secretary, Ministry of Climate Change, Islamabad.
6. Director General (Coordination), 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. General Manager, 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
43. PS to CEA/CFFC Islamabad.

U.O. No. FC-I (31)/2021, dated 16-07-2021

## Rivers and Reservoir Positions July 16, 2021 at 0600 Hours

### A. River Flow Situation:

Structures	Designed Capacity	Last Year Flow		Today Actual Flow		Comparative Danger (VHF) Classification	Flood Classification* (Based on today's Outflow)
		Inflow	Out Flow	In Flow	Out Flow		
1	2	3	4	5	6	7	8
<b>River Indus</b>							
▪ Tarbela Reservoir	1,500,000	144,000	148,000	194,000	139,000	650,000	Normal
▪ Kalabagh	950,000	230,000	222,000	198,000	190,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	227,000	220,000	200,000	193,000	650,000	Normal
▪ Taunsa	1,000,000	226,000	198,000	178,000	158,000	650,000	Normal
▪ Guddu	1,200,000	174,000	137,000	121,000	84,000	700,000	Normal
▪ Sukkur	900,000	124,000	66,000	78,000	30,000	700,000	Normal
▪ Kotri	875,000	69,000	26,000	26,000	NIL	650,000	Normal
<b>River Kabul</b>							
▪ Warsak	540,000		33,000		33,000	200,000	Normal
▪ Nowshera			51,000		53,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>							
▪ Chakdara Bridge			15,000		15,000	150,000	Normal
▪ Munda Head Works	150,000		12,000		11,000	150,000	Normal
▪ Charsadda Road Bridge			10,000		8,000	100,000	Normal
<b>River Jhelum</b>							
▪ Mangla Reservoir	1,060,000	32,000	24,000	44,000	12,000	225,000	Normal
▪ Rasul	850,000	19,000	12,000	7,000	NIL	225,000	Normal
<b>River Chenab</b>							
▪ Marala	1,100,000	63,000	30,000	51,000	17,000	400,000	Normal
▪ Khanki	1,100,000	27,000	19,000	31,000	24,000	400,000	Normal
▪ Qadirabad	900,000	29,000	7,000	37,000	17,000	400,000	Normal
▪ Trimmu	875,000	26,000	11,000	63,000	46,000	450,000	Normal
▪ Panjnad	865,000	14,000	NIL	11,000	NIL	450,000	Normal
<b>River Ravi</b>							
▪ Jassar	275,000		7,000		6,000	150,000	Normal
▪ Shahdara	250,000		23,000		27,000	135,000	Normal
▪ Balloki	380,000	44,000	13,000	43,000	14,000	135,000	Normal
▪ Sidhnai	150,000	24,000	9,000	17,000	NIL	90,000	Normal
<b>River Sutlej</b>							
▪ Suleimanki	325,000	21,000	8,000	15,000	3,000	175,000	Normal
▪ Islam	300,000	5,000	4,000	2,000	NIL	175,000	Normal

### B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Ft-AMSL)	Minimum Operating Level (Ft-AMSL)	Water Level ( Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2019	2020	2021	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1392.00	1478.75	1456.70	1457.68	5.882	1.470	1.444	24.54%
Chashma	649.00	638.15	645.50	646.50	647.40	0.278	0.170	0.202	72.66%
Mangla	1242.00	1050.00	1165.60	1225.65	1164.25	7.356	6.097	2.394	32.54%
<b>Total Live Storage</b>						<b>13.516</b>	<b>7.737</b>	<b>4.040</b>	<b>29.89%</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	31.1 °C	29.2 °C
Minimum	17.3 °C	14.2 °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"

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

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Sindh</b>	
1.	Karachi	70
2.	Badin	42
3.	Thatta	38
4.	Chhor	18
5.	Mithi	15
<b>B</b>	<b>Balochistan</b>	
6.	Dalbadin	19
7.	Lasbela	13
8.	Ormara	11
9.	Turbat	07

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