



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

DAILY WEATHER & FLOOD SITUATION REPORT
MONDAY JULY 19, 2021

At present all main rivers i.e Indus, Jhelum, Chenab, Ravi and Sutlej are flowing with normal discharges and there is no riverine flood situation in the country. Column-5, Section-A, **Annexure-I** indicates healthier inflows in river Indus, Jhelum and Chenab owing to increase in temperature in the upper catchment areas of Indus and good rainfalls in the catchments of Jhelum and Chenab. This has resulted in appreciable increase in the reservoir's storage. As of today, Combined Live Storage of Tarbela, Chashma & Mangla reservoir has risen to **4.436 MAF** (i.e. **32.82%** of the existing Combined Live Storage Capacity of **13.516 MAF**).

2. Well-marked Seasonal Low from the Arabian Sea presently prevails over Northeastern Balochistan with its trough extending Northwards resulting into penetration of strong moist currents into upper parts of the country up to 7000 feet. Further trough (lowest point) of strong Westerly Wave yesterday over Northeastern parts of Afghanistan is presently existing over Northern parts of Pakistan (Ref: FFD, Lahore).

3. 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 of Punjab (**Rawalpindi, Sargodha, Gujranwala & Lahore Divisions**) and Khyber Pakhtunkhwa including upper catchments of rivers Indus, Kabul, Jhelum and Chenab have been predicted by FFD, Lahore for the ensuing **24 hours**. Scattered thunderstorm/ rain of **Moderate Intensity** with isolated **Heavy Falls** may also occur over **Faisalabad, Sahiwal, Multan, Bahawalpur & D.G. Khan Divisions** of Punjab Province and upper catchments of **rivers Ravi and Sutlej** during the same period. Prominent rainfall recorded during the past 24 hours may be seen at **Annexure-II**.

4. **FFD's Next 48 hours Significant Weather/ Rainfall and Flood Forecast:**

- 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 Northern & Northeastern Punjab, Khyber Pakhtunkhwa and upper catchments of rivers Indus, Kabul, Jhelum and Chenab during **20th & 21st July, 2021**.
- Scattered thunderstorm/rain may also occur over the upper catchments of **Rivers Ravi, Sutlej and Beas** during the same period.
- As a result, during the next 24-48 hours, **Medium Flood** is expected in rivers **Indus and Kabul** including their tributaries/nullahs. **Medium to High Flood** in tributaries (local nullahs) of **River Ravi**, **Very High to Exceptionally High Flood** in **River Jhelum (upstream Mangla)** and its tributaries (local nullahs), besides, **High to Very High Flood** in river **Chenab** and its tributaries (local nullahs).

5. **All concerned authorities are strictly advised to remain ALERT on ROUND-THE-CLOCK BASIS, monitor the weather and flood situation on a real time and ensure fool proof precautionary measures well in time to avoid any loss of precious human lives, damage to important installations including public & private properties.**

6. Un-halted Round-the-Clock monitoring of prevailing weather system is being done by PMD with specific reference to its impact over Rural, Urban and Riverine areas of 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 19-07-2021

Rivers and Reservoir Positions July 19, 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
River Indus							
▪ Tarbela Reservoir	1,500,000	164,000	152,000	237,000	84,000	650,000	Normal
▪ Kalabagh	950,000	219,000	211,000	189,000	183,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	215,000	208,000	261,000	243,000	650,000	Normal
▪ Taunsa	1,000,000	221,000	197,000	187,000	164,000	650,000	Normal
▪ Guddu	1,200,000	179,000	143,000	138,000	95,000	700,000	Normal
▪ Sukkur	900,000	131,000	74,000	92,000	37,000	700,000	Normal
▪ Kotri	875,000	55,000	18,000	24,000	NIL	650,000	Normal
River Kabul							
▪ Warsak	540,000		35,000		33,000	200,000	Normal
▪ Nowshera			53,000		49,000	200,000	Normal
River Swat (Tributary of Kabul)							
▪ Chakdara Bridge			16,000		18,000	150,000	Normal
▪ Munda Head Works	150,000		11,000		13,000	150,000	Normal
▪ Charsadda Road Bridge			11,000		8,000	100,000	Normal
River Jhelum							
▪ Mangla Reservoir	1,060,000	32,000	19,000	52,000	12,000	225,000	Normal
▪ Rasul	850,000	20,000	12,000	7,000	NIL	225,000	Normal
River Chenab							
▪ Marala	1,100,000	57,000	24,000	88,000	54,000	400,000	Normal
▪ Khanki	1,100,000	27,000	19,000	42,000	35,000	400,000	Normal
▪ Qadirabad	900,000	25,000	3,000	38,000	18,000	400,000	Normal
▪ Trimmu	875,000	18,000	3,000	26,000	9,000	450,000	Normal
▪ Panjnad	865,000	22,000	6,000	14,000	NIL	450,000	Normal
River Ravi							
▪ Jassar	275,000		11,000		4,000	150,000	Normal
▪ Shahdara	250,000		29,000		23,000	135,000	Normal
▪ Balloki	380,000	47,000	15,000	35,000	5,000	135,000	Normal
▪ Sidhnai	150,000	21,000	5,000	23,000	7,000	90,000	Normal
River Sutlej							
▪ Suleimanki	325,000	20,000	7,000	15,000	3,000	175,000	Normal
▪ Islam	300,000	8,000	6,000	1,000	NIL	175,000	Normal

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (FL-AMSL)	Minimum Operating Level (FL-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	1490.17	1455.48	1464.58	5.882	1.422	1.722	29.27 %
Chashma	649.00	638.15	644.70	647.70	645.20	0.278	0.215	0.131	47.12 %
Mangla	1242.00	1050.00	1170.75	1226.40	1168.30	7.356	6.152	2.583	35.11 %
Total Live Storage						13.516	7.789	4.436	32.82 %

C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	26.4 °C	37.6 °C
Minimum	14.3 °C	19.0 °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"

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A Punjab		
1.	Islamabad	71
2.	Sialkot	52
3.	Mandibahauddin	31
4.	Lahore	27
5.	Murree	26
6.	Attock	25
7.	Rohtas	21
8.	Mangla	17
9.	Kallar	13
10.	Aik Nullah (Ura)	10
11.	Marala	07
B Khyber Pakhtunkhwa		
12.	Kamra	51
13.	Tarbela	48
14.	Buner	35
15.	Phulra	31
16.	Shinkiari	30
17.	Kakul	13
18.	Kohat	12
19.	Babusar	08
20.	Saidu Sharif	06
C Balochistan		
21.	Zhob	14
22.	Kalat	06
D AJ&K		
23.	Kotli	42
24.	Brarkot	38
25.	Chattar Kallas & Tandali	34 each
26.	Domel	20
27.	Muzaffarabad	18
28.	Garhi Dopatta	17
29.	Hajira	12
30.	Nauseri	07

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