



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

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

FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY, JULY 27, 2023

Tarbela and Mangla reservoirs have attained **82.44%** and **79.43%** of their respective maximum storage (Tarbela-5.809 MAF, Mangla-7.356 MAF). Owing to the active monsoon rains during the 1st month of Monsoon (July 2023), forecast of PMD for the next three days (July 27-29, 2023) and the storage space remaining in above reservoirs, **dam management organization of both Tarbela and Mangla (Flood Mitigation Committee) are required to exercise extreme care with regard to observance of respective SOPs & dam safety aspects.**

2. **Indus River System** is presently experiencing **Medium Flood** at **two locations (River Indus at Taunsa Barrage and River Sutlej at Suleimanki (1st control structure on River Sutlej in Pakistan) whereas Low Flood at eight locations (River Indus at Tarbela, Kalabagh, Chashma, Guddu and Sukkur, River Kabul at Nowshera, River Ravi at Balloki and River Sutlej at Ganda Singh Wala). Annexure-I** is referred.

3. Bay of Bengal "**Well-Marked Low-Pressure Area**", earlier over Northwest Bay of Bengal (India), presently prevails over South Orissa (India) and adjoining areas with weak Seasonal Low laying over Northern Balochistan. These weather systems are bringing moderate moist currents which are penetrating into upper parts of Pakistan upto 7000 feet. Trough of Westerly Wave earlier over Northern parts of Afghanistan today lies over Northeastern Afghanistan and adjoining areas.

4. **Forecast-Next 24 Hours:**

- **Scattered to Widespread Wind Thunderstorm/ Rain of Moderate Intensity with Isolated Heavy to Very Heavy Fall** are likely over the upper catchment of Rivers Kabul and Indus (lower part of upper catchment).
- **Scattered Wind Thunderstorm/ Rain of Moderate Intensity with Isolated Heavy Falls** are expected over Islamabad Punjab (Rawalpindi, Gujranwala, Lahore, Multan, D.G Khan & Bahawalpur Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I Khan Divisions), Balochistan (Zhob, Loralai, Kalat, Sibbi, Makran & Nasirabad Divisions) including upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej.
- **Isolated wind thunderstorm/ rain of light to moderate intensity** may occur over **upper Sindh** and rest of the Punjab.

5. **Rainfall-Preceding 24 hours:**

Annexure-II is referred for details. Wet spell is likely to continue with the same intensity during the next 48 hours.

6. **Weather and Flood Forecast-Next 72 Hours:**

- **Scattered to widespread wind thunderstorm/rain with isolated heavy to very heavy falls** are expected over the upper catchments of Rives Indus & Kabul.
- **Scattered thunderstorm/ rain of moderate intensity with isolated heavy falls** may also occur over the upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej.
- Monsoon activity is likely to decrease after 72 hours.

7. Above situation may result into **Moderate to Heavy Flash flooding** in **River Kabul** at **Nowshera** including its tributaries & Hill Torrents of D.G Khan Division during the same period of **72 hours**.

8. **All concerned organizations especially the dam management organizations (Tarbela on Indus, Mangla on Jhelum) are advised to remain Alert & Vigilant, take prompt actions on warnings issued, to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.**

9. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) through FFD, Lahore and is keeping all concerned organizations fully cognizant of the situation.

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.


(Ahmed Kamal)
Chief Engineering Adviser/
Chairman, Federal Flood Commission

Distribution:

3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad.
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
28. Commissioner, Rawalpindi.
29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
30. Secretary, Irrigation Department, Government of Sindh, Karachi
31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
39. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
40. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2023, dated 27-07-2023

Rivers and Reservoir Positions July 27, 2023 at 0600 Hours

A. River Flow Situation:

(Discharge in Cusecs)

Structures	Designed Capacity	Historic Peak Floods experienced to-date		Last Year Flow		Today Actual Flow with Flood Classification			Comparative Danger (VHF) Classification
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	254,000	159,000	276,000	275,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	174,000	171,000	316,000	308,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	289,000	281,000	357,000	373,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	283,000	278,000	388,000	388,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	283,000	273,000	359,000	349,748	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	259,000	238,000	282,000	261,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	90,000	79,000	118,000	87,000	Normal	650,000
River Kabul									
• Warsak	540,000				37,000		30,000	Normal	200,000
• Nowshera					61,000		65,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					16,000		13,000	Normal	150,000
• Munda(H. Works)					13,000		16,000	Normal	150,000
• Charsadda Road	150,000				8,000		15,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	95,000	9,000	96,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	6,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	75,000	60,000	93,000	76,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	94,000	88,000	85,000	78,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	97,000	78,000	83,000	73,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	89,000	82,000	98,000	90,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	41,000	36,000	93,000	86,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		14,000		38,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		12,000		31,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	39,000	21,000	59,000	42,000	Low Flood (R)	135,000
• Sidhnai	150,000	330,210	02-10-1988	21,000	20,000	37,000	29,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 19.50	63,000	Low Flood (F)	
• Suleimanki	325,000	598,872	08-10-1955	15,000	9,000	84,000	84,000	Med Flood (S)	175,000
• Islam	332,000	492,581	11-10-1955	11,000	10,000	38,000	38,000	Normal	175,000

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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1497.60	1517.89	1531.90	5.809	4.077	4.789	82.44 %
Chashma	649.00	638.15	646.70	639.00	638.50	0.278	0.010	0.004	01.44 %
Mangla	1242.00	1050.00	1182.15	1141.45	1222.20	7.356	1.454	5.843	79.43 %
Total Live Storage						13.443	5.541	10.636	79.12 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	36.1°C	31.2°C	- 4.9°C
Minimum	19.3°C	16.5°C	- 2.8°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"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours

Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission
DAILY WEATHER AND FLOOD SITUATION REPORT
THURSDAY JULY 27, 2023

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	188
2.	Islamabad	109
3.	Sialkot	95
4.	Sahiwal	86
5.	Faisalabad	65
6.	Khanewal	55
7.	Multan	43
8.	Okara	37
9.	Hafizabad	29
10.	Gujranwala, Noorpur Thal & Daultnagar	24 each
11.	Muzaffargarh	23
12.	Rohtas	17
13.	Bahawalnagar	14
14.	Bhakkar & Gujrat	12 each
15.	Murree & Bahawalpur	10 each
16.	Shorkot & Chakwal	07 each
17.	Joharabad	06
C	Khyber Pakhtunkhwa	
18.	Phulra	99
19.	Kakul	87
20.	Pashat-Bajaur	48
21.	Buner	45
22.	Malam Jabba	39
23.	Tarbela	29
24.	Oghi	11
25.	Saidu Sharif & Cherat	06 each
D	Balochistan	
26.	Muslim Bagh	11
27.	Dalbandin	10
28.	Ziarat	09
29.	Turbat	06
E	AJ & K	
30.	Kotli	51
31.	Muzaffarabad	18
32.	Rawalakot	17
33.	Garhi Dopatta	15
34.	Haraman	11
35.	Domel	08
36.	Palandri	07

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