



**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
MONDAY, JULY 17, 2023**

River Sutlej at Head Suleimanki (1st control structure in Pakistan) which was in **Medium Flood** yesterday, has receded to "**Low Flood**" discharge. Rest of the major rivers of Indus River System are flowing in their normal flow conditions. **Annexure-I** is referred for **Inflows/ Outflows** of major rivers at specified control structures and overall storage position.

2. Combined live storage of country's major reservoirs is very encouraging compared to last year's (**8.734 MAF** this year Vs **4.404 MAF** last year).

3. Yesterday's **Monsoon Low** over Northern Bay of Bengal, currently prevails over West Jharkhand (India) and adjoining areas. Also yesterday's trough of Westerly Wave over Northern parts of the country has moved away Eastwards with another fresh trough of Westerly Wave lies over Northern parts of Iran whereas Seasonal Low continues to prevail over Northern Balochistan. As a result, **Light to Moderate Moist currents** are penetrating into upper parts of Pakistan up to 5000 feet both from the Arabian Sea and Bay of Bengal (India).

4. **Scattered Wind Thunderstorm/ Rain of Moderate Intensity** is likely over **Islamabad, Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore, Faisalabad, Multan, Sahiwal, D.G. Khan & Bahawalpur Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** including over upper catchments of all the major rivers of IRS during the next 24 hours. **Isolated Wind Thunderstorm/ Rain** may also occur over **Zhob, Loralai, Sibbi, Nasirabad & Kalat Divisions of Balochistan** during the same period.

5. During the preceding 24 hours, **Heavy rainfall** has been experienced in Punjab (**Gujranwala=109 mm & Chunian = 83 mm**). **Annexure-II** is referred for details.

6. For the extended period (**19th to 23rd July 2023**), **Scattered to Widespread Wind Thunderstorm/Rain of Moderate Intensity** with **Isolated Heavy Falls** may occur over upper catchments of rivers **Kabul & Indus** with **Moderate Rain** at **scattered places** during the same period over the upper catchments of rest of the major rivers.

7. All concerned organizations especially both **Irrigation Department and PDMA Punjab**, 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 as well as irrigation, drainage, flood protection & river training infrastructure etc.

8. Pakistan Meteorological Department (PMD) through FFD, Lahore, is monitoring the current weather situation on Round-the-Clock basis and keeping all informed as per its SOPs.


(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. Minister for Climate Change, Islamabad.

Distribution:

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 17-07-2023

Rivers and Reservoir Positions July 17, 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	178,000	124,000	190,000	165,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	130,000	123,000	223,000	215,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	222,000	210,000	215,000	210,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	231,000	212,000	184,000	166,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	198,000	170,000	179,000	139,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	168,000	139,000	133,000	77,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	33,000	17,000	76,000	34,000	Normal	650,000
River Kabul									
• Warsak	540,000				29,000		29,000	Normal	200,000
• Nowshera					57,000		49,000	Normal	200,000
River Swat									
• Chakdara Bridge					11,000		12,000	Normal	150,000
• Munda(H. Works)					13,000		14,000	Normal	150,000
• Charsadda Road	150,000				13,000		13,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	23,000	15,000	50,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	12,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	64,000	38,000	95,000	67,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	57,000	50,000	66,000	59,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	59,000	37,000	53,000	43,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	43,000	27,000	37,000	24,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	39,000	32,000	55,000	40,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		5,000		23,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		15,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	38,000	14,000	44,000	27,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	6,000	26,000	10,000	Normal	90,000
River Sutlej									
• G.S. Wala						Gauge 15.90	20,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	22,000	18,000	65,000	65,000	Low Flood (F)	175,000
• Islam	332,000	492,581	11-10-1955	2,000	1,000	15,000	15,000	Normal	175,000

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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1458.82	1498.72	1514.77	5.809	3.179	3.890	66.97 %
Chashma	649.00	638.15	648.20	647.20	645.70	0.278	0.194	0.145	52.16 %
Mangla	1242.00	1050.00	1165.60	1128.70	1205.65	7.356	1.031	4.699	63.88 %
Total Live Storage						13.443	4.404	8.734	64.97 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	28.3 °C	28.2 °C	- 0.1 °C
Minimum	13.2 °C	18.4 °C	5.2 °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"

* 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
MONDAY JULY 17, 2023

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A.	Punjab	
1.	Gujranwala	109
2.	Chunian	83
3.	Murree	47
4.	Chakwal	31
B.	Khyber Pakhtunkhwa	
5.	Malam Jabba	15
6.	Kakul	14
7.	Balakot	09
8.	Oghi	06
C.	Balochistan	
9.	Barkhan	07
D.	A J & K	
10.	Rawalakot	37
11.	Garhi Dopatta	12
12.	Bandi Abbaspur & Balakot	09 each

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