



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

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FFC's  
**DAILY WEATHER & FLOOD SITUATION REPORT**  
**SUNDAY, JULY 16, 2023**

At present, Rivers Indus, Jhelum, Chenab and Ravi are flowing under "Normal Flow Condition". However, **River Sutlej** is in **Medium Flood** at **Suleimanki** (1<sup>st</sup> control structure in Pakistan). The inflows/ outflows of major rivers at specified control structures including reservoir storage positions have been indicated at **Annexure-I**. Today's combined live storage of Mangla, Tarbela & Chashma reservoirs is **8.633 MAF** (64.22% of Maximum Live Storage Capacity of **13.443 MAF**).

2. According to FFD Lahore, yesterday's trough of **Westerly Wave** over Northern parts of Pakistan continues to prevail whereas **Moderate Moist Currents** from Arabian Sea and Bay of Bengal are penetrating into upper parts of Pakistan upto 5000 feet. Moreover, **Seasonal Low** lies over Northern Balochistan with its trough extending North-eastwards. A **Monsoon Low** has developed over Northern Bay of Bengal and adjoining area.

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

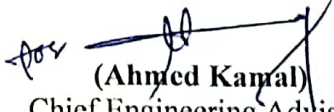
4. Some notable rainfall events in Punjab, Khyber Pakhtunkhwa and AJ&K have been reported by FFD Lahore during the past 24 hours, for which **Annexure-II** may be referred.

5. **Weather Outlook for rivers catchments for the next one week (17<sup>th</sup> to 23<sup>rd</sup> July 2023):**

- **Scattered Wind Thunderstorm/ Rain of Moderate Intensity** with **Isolated Heavy Falls** is expected over the upper catchments of all the major rivers from **17<sup>th</sup> to 23<sup>rd</sup> July 2023**.

6. **PDMA Punjab, besides all concerned organizations are advised to remain Fully Alert & Vigilant, take prompt actions on warnings issued, in particular in the context of discharges in River Sutlej, to ensure safety of communities living in low lying areas, public & private property as well as irrigation, drainage, flood protection & river training infrastructure etc.**

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

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

**Distribution:**

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

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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.
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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.
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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.
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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 16-07-2023**

## Rivers and Reservoir Positions July 16, 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 (VHIF) Classification
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	185,000	107,000	159,000	165,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	138,000	130,000	210,000	202,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	225,000	211,000	210,000	205,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	240,000	221,000	190,000	172,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	200,000	173,000	186,000	146,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	156,000	129,000	138,000	82,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	25,000	7,000	76,000	34,000	Normal	650,000
<b>River Kabul</b>									
• Warsak	540,000				33,000		25,000	Normal	200,000
• Nowshera					59,000		48,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge					13,000		12,000	Normal	150,000
• Munda (H. Works)					16,000		15,000	Normal	150,000
• Charsadda Road	150,000				16,000		13,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	29,000	11,000	50,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	12,000	NIL	9,000	5,000	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	69,000	44,000	77,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	47,000	41,000	57,000	50,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	61,000	39,000	49,000	39,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	37,000	22,000	38,000	25,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	34,000	28,000	55,000	40,000	Normal	450,000
<b>River Ravi</b>									
• 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	13,000	45,000	27,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	3,000	25,000	10,000	Normal	90,000
<b>River Sutlej</b>									
• G.S. Wala						Gauge 15.70	19,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	19,000	13,000	84,000	84,000	Med Flood (R)	175,000
• Islam	332,000	492,581	11-10-1955	1,000	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	1457.68	1496.74	1514.93	5.809	3.043	3.898	67.10 %
Chashma	649.00	638.15	647.40	649.00	647.70	0.278	0.278	0.118	42.45 %
Mangla	1242.00	1050.00	1164.25	1127.82	1204.40	7.356	1.005	4.617	62.77 %
<b>Total Live Storage</b>						<b>13.443</b>	<b>4.326</b>	<b>8.633</b>	<b>64.22 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ /- )
Maximum	28.0 °C	35.2 °C	7.2 °C
Minimum	18.0 °C	16.4 °C	1.3 °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

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

Sr. No.	City/Observatory	Rainfall (mm)
<b>A. Punjab</b>		
1.	Gujranwala	100
2.	Chunian	92
3.	Faiaslabad	80
4.	Okara	40
5.	Lahore	39
6.	Shorkot	35
7.	Sialkot	28
8.	Sahiwal and Noorpur Thal	16 each
9.	Sargodha	10
10.	Khanewal	08
11.	Islamabad and Jhelum	06 each
12.	Mandi-Bahauddin	05
<b>B. Khyber Pakhtunkhwa</b>		
13.	Peshawar	45
14.	Buner	31
15.	Malam Jabba	30
16.	Pashat-Bajaur	29
17.	Kakul	21
18.	Saidu Sharif	16
19.	Khaar-Bajaur	14
20.	Warsak Dam and Mamad Gut	07 each
<b>C. A J &amp; K</b>		
21.	Rawalakot	26
22.	Palandri	12
23.	Mangla	06

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