



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

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**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY, JULY 21, 2022**

Entire Indus River System (Indus, Jhelum, Chenab, Ravi & Sutlej) continues to experience "Normal Flow Conditions". Inflows/outflows of main rivers within different control structures including both storage & water levels in Tarbela, Chashma and Mangla reservoirs as of 0600 hours today may be seen at **Annexure-I**. Present Total Live Storage of Tarbela, Chashma & Mangla reservoirs is **4.414 MAF (32.79% of Maximum Live Storage of 13.461 MAF)**.

2. According to FFD, Lahore, remnants (leftover) of Low Pressure area over Madhya Pradesh (India) are still active as trough. Moderate to strong moist currents both from Arabian Sea & Bay of Bengal are penetrating into upper parts of Pakistan up to 7,000 feet with Seasonal Low prevailing over Northeastern Balochistan.

3. For the ensuing 24 hours, FFD, Lahore, has predicted scattered thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy Falls** over **Punjab (Rawalpindi, Sargodha, Multan & D.G.Khan Divisions)** and **Khyber-Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I.Khan Divisions)** including upper catchments of all the major rivers. Scattered to widespread thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy to Very Heavy Falls** may also occur over **Gujranwala, Lahore, Faisalabad, Sahiwal & Bahawalpur Divisions of Punjab**, besides isolated thunderstorm/rain over **Sindh** and **Eastern Balochistan** during the same period. As a consequence, **Urban Flooding** is expected in **Punjab (Lahore, Gujranwala, Faisalabad, Sahiwal & Bahawalpur Divisions)** besides **Medium to High Level flooding** in the local Nullahs/Tributaries of **Rivers Chenab (Bhimber, Aik, Palkhu, Hali & Daulti) & Ravi (Bein, Basantar, Deg, Hasri & Jhahhri)** including **Hill Torrents of D.G.Khan Division** during the next 24-hours. Significant rainfall events reported by FFD, Lahore, during the past 24 hours may be seen at **Annexure-II**.

4. As reported by FFD, Lahore, the current Wet Spell is likely to continue over upper half of Pakistan for further 24 hours. The monsoon activity is likely to increase significantly over **Sindh** and **Balochistan** after 48 hours.

5. All concerned authorities are advised to remain **ALERT**, monitor the weather and flood situation constantly and ensure fool proof precautionary measures so that loss of precious human lives and damage to public & private properties is avoided.

6. Pakistan Meteorological Department (PMD) is closely monitoring the prevailing weather system in the country and is keeping all concerned fully abreast of the situation on round-the-clock basis through Flood Forecasting Division (FFD), Lahore.


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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.

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7. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
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12. Chief Executive Officer, Pakistan Railways, Lahore.
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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.
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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.

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PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions July 21, 2022 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	227,000	108,000	191,000	164,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	226,000	222,000	156,000	148,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	250,000	236,000	222,000	203,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	197,000	169,000	183,000	159,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	154,000	112,000	166,000	129,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	94,000	40,000	174,000	136,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	25,000	NIL	83,000	50,000	Normal	650,000
River Kabul									
• Warsak	540,000				48,000		30,000	Normal	200,000
• Nowshera		450,000	29-07-2010		87,000		49,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		27,000		11,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		16,000		8,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		13,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	70,000	8,000	38,000	13,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	9,000	NIL	12,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	108,000	82,000	94,000	65,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	136,000	130,000	68,000	61,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	98,000	78,000	54,000	32,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	30,000	14,000	32,000	17,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	25,000	10,000	30,000	19,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		15,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		35,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	41,000	14,000	34,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	1,000	18,000	9,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	4,000	23,000	16,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	1,000	12,000	11,000	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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1457.65	1476.86	1499.73	5.827	2.230	3.179	54.56 %
Chashma	649.00	638.15	648.00	642.00	643.70	0.278	0.058	0.093	33.45 %
Mangla	1242.00	1050.00	1227.00	1172.65	1132.25	7.356	2.798	1.142	15.52 %
Total Live Storage						13.461	5.086	4.414	32.79 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+/-)
Maximum	23.0 °C	38.6 °C	+ 15.6
Minimum	14.3 °C	16.4 °C	+ 2.1

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/ Historic Peak Floods: (applied on downstream discharge/Outflow)

(↑) Signifies "Rising" Flood, (↓) Signifies "Falling" Flood, (↔) Signifies "Stable" Flow Condition & NR stands for "Not Received"

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THURSDAY JULY 21 2022

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	(Taj Pura=185, Airport=158, Mughal Pura=149, Misri Shah=148, Luckshami=128, Shahi Qilla=116, Gulshan e Ravi & Township=105(each), Johar Town=104, Upper Mall=101, Shahdara=82, Samanabad=68, Gulburg=63, City=62, Iqbal Town=59 & Punjab University=56)
2.	Sialkot	(Cantt=156, Airport=115)
3.	Narowal	147
4.	Kasur	73
5.	Gujrat	68
6.	Murree	45
7.	Jhelum	40
8.	GS Wala	36
9.	Mangla	28
10.	Rohtas	27
11.	Gujranwala	22
12.	Islamabad	Chaklala (Airbase)=15, New Airport=10)
13.	Kotnaina	14
14.	Mandibahauddin & Zafarwal	12 (Each)
15.	Marala	10
B	Sindh	
16.	Karachi	06
C	Khyber Pakhtunkhwa	
17.	Buner	18
18.	Daggar	13
D	Balochistan	
19.	Khuzdar	30
20.	Barkhan	05
E	A J & K	
21.	Bandi Abbaspur	17
22.	Kotli	14

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