



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
SATURDAY, JULY 16, 2022

Presently, all main rivers (Indus, Jhelum, Chenab, Ravi and Sutlej) are flowing in Normal Flow conditions. **Annexure-I** depicts inflows/outflows of main rivers alongwith storage position of Tarbela, Chashma & Mangla reservoirs at 0600 hours today besides, Skardu Temperature. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **4.326 MAF** which is **32.14 %** of total existing Live Storage Capacity (**13.461 MAF**).

2. According to FFD Lahore, yesterday's **trough of Westerly Wave** over Northern parts of Pakistan today lies over Kashmir and adjoining areas whereas yesterday's **Monsoon Low** over central parts of Orissa (India) remained stationary. **Low-Pressure Area** still lies over Northeastern Arabian Sea and adjoining Gujarat (India), however, it has become well marked and Seasonal Low lies over Western Balochistan. At the reporting time, Moderate to Strong moist currents from Arabian Sea & Bay of Bengal were penetrating into lower half of Pakistan upto 10,000 feet.

Next 24 hours: Rain/Flood Prediction and likely impact:

3. Scattered to widespread thunderstorm/rain of **Moderate to Heavy Intensity** with isolated **Very Heavy Falls** is expected over **Sindh, Balochistan and Punjab (Bahawalpur & D.G. Khan Divisions)**. Isolated thunderstorm/rain of **Moderate Intensity** may also occur over Punjab (**Rawalpindi, Sargodha, Gujranwala, Lahore, Faisalabad, Sahiwal & Multan Divisions**) and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** including upper catchments of all the major rivers of Indus River System.


Next 48 hours: Weather Outlook & Flood Forecast:

4. The wet spell over lower half of Pakistan is likely to continue and subdued rainfall activity is likely over the upper half of Pakistan upto **18th July 2022**. This may result into **Medium to High Category Flooding** in the Hill Torrents of **D.G. Khan Division (Punjab)** and in the Rivers/Nullahs of **Balochistan**, besides **Urban Flooding in Sindh (between 16th to 17th July 2022)**.

5. Some of the mentionable rainfall events as reported by FFD, Lahore for the past 24 hours may be seen at **Annexure-II**.

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

7. Pakistan Meteorological Department (PMD) is monitoring the prevailing weather system on Round-the-Clock basis. 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.

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3. Minister for Climate Change, 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.
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 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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 23. Chief Secretary, Government of Balochistan, Quetta.
 24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
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 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)/2022, Dated 16-07-2022**

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PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions July 16, 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	194,000	139,000	185,000	107,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	198,000	190,000	138,000	130,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	200,000	193,000	225,000	211,000	Normal	650,000
• Tauna	1,000,000	959,991	02-8-2010	178,000	158,000	240,000	221,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	121,000	84,000	200,000	173,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	78,000	30,000	156,000	129,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	26,000	NIL	25,000	7,000	Normal	650,000
River Kabul									
• Warsak	540,000				33,000		33,000	Normal	200,000
• Nowshera		450,000	29-07-2010		53,000		59,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		15,000		13,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		11,000		16,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		8,000		16,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	44,000	12,000	29,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	7,000	NIL	12,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	51,000	17,000	69,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	31,000	24,000	47,000	41,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	37,000	17,000	61,000	39,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	63,000	46,000	37,000	22,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	34,000	28,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		5,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		27,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	43,000	14,000	38,000	13,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	NIL	15,000	3,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	3,000	19,000	13,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	NIL	1,000	1,000	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	1456.70	1457.68	1496.74	5.827	1.444	3.043	52.22 %
Chashma	649.00	638.15	646.50	647.40	649.00	0.278	0.202	0.278	100 %
Mangla	1242.00	1050.00	1225.65	1164.25	1127.82	7.356	2.394	1.005	13.66 %
Total Live Storage						13.461	4.040	4.326	32.14 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+/-)
Maximum	29.2 °C	28.0 °C	- 1.2
Minimum	14.2 °C	18.0 °C	+ 3.8

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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	GS Wala	33
2.	Kasur	32
3.	Lahore	[Tajpura = 28, Upper Mall = 19, Iqbal Town = 18, Samanabad = 16, Luckshami = 15, Gulshan-e-Ravi & Township = 14 each, Misri Shah & Mughal Pura = 12 each, Punjab University = 10, Shahdara=09, Shahi Qilla, Johar Town, Gulberg & Airport = 08 each and Jail Road=07]
4.	Kotnaina	16
5.	Bahawalnagar	09
6.	Sialkot, D.G. Khan, Ravi Syphon & Narowal	07 each
7.	Gujrat, Sharqpur & Bahawalpur	06 each
B	Sindh	
8.	Padidan	121
9.	Sakrand	81
10.	Shaheed Benazirabad	65
11.	Dadu	29
12.	Jacobabad	24
13.	Karachi	[Gulshan-e-Maymar 11 and Gulshan e Hadeed=07]
14.	Larkana	07
15.	Chhor & Tando Jam	06 each
C	Khyber Pakhtunkhwa	
16.	Parachinar	35
17.	Kakul	22
18.	Phulra & Balakot	15 each
19.	Tirah-Khyber	07
20.	Oghi	05
D	Balochistan	
21.	Sibbi	10
E	AJ&K	
22.	Rawalakot	13
23.	Palandri	07
24.	Haraman & Chakothei	05 each

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