



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Advisor/
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
SUNDAY, JULY 24, 2022

Appreciable rains in the upper catchment areas of River Chenab have resulted in "Low Flood" in its "Khanki-Qadirabad Reach" (Upstream Trimmu). Remaining main rivers (Indus, Jhelum, Ravi and Sutlej) are flowing with "Normal Discharges". For main rivers inflows/ outflows at important control structures, reservoirs storage position and Skardu temperature, **Annexure-I** may be seen. Combined Live Storage of country's three major reservoirs as of today is **4.906 MAF** (i.e. **36.45%** of the total value of **13.516 MAF**).

2. Yesterday's Well Marked Low Pressure area over Northwestern parts of Rajasthan (India) & adjoining areas presently prevails over Southeastern Sindh (Pakistan). Moderate to strong moist currents both from Arabian Sea & Bay of Bengal are penetrating into lower half of Pakistan up to 10,000 feet with Seasonal Low lies over Northwestern Balochistan: (**Source FFD, Lahore**).

3. **Next 24 hours: Rain/ Flood Prediction and likely impact:**

Fairly Widespread thunderstorm/rain with **Heavy to Very Heavy Falls** at scattered places has been predicted by FFD, Lahore, over **D.G. Khan Division (Punjab), Sindh, Eastern & Coastal Balochistan** besides scattered thunderstorm/rain with **Isolated Heavy Falls** over **Punjab (Rawalpindi, Sargodha, Gujranwala, Multan & Bahawalpur Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I.Khan Divisions)** including over upper catchments of all the major rivers during the next 24 hours. Isolated thunderstorm/rain may also occur over **Lahore, Faisalabad & Sahiwal Divisions of Punjab** during the same 24 hours. As a result, **Medium to High level flooding** is expected in **Hill Torrents of D.G. Khan Division (Punjab)** during the **next 24 hours**. The ongoing Wet spell of **moderate intensity** is likely to continue over upper half of Pakistan for further 24 hours. During the past 24 hours all the four provinces including AJ&K received rains (**Annexure-II** is referred).

4. **FFD's Weather Outlook & Flood Forecast (24th to 26th July 2022):**

Widespread thunderstorm/rain of **Heavy to Very Heavy Falls** is likely to continue over **Eastern & Coastal Balochistan** during further 24 hours, however it is likely to decrease over **Sindh** after 36 hours. The **Heavy to Very Heavy** rains may generate **Urban Flooding** in a number of cities of **Sindh** including **Karachi, Hyderabad, Thatta, Badin, Shaheed Benazirabad, Jamshoro, Mirpurkhas, Dadu, Umer Kot, Jacobabad, Larkana and Sukkur** between **24th to 26th July 2022**, besides **Flash Flooding** in a number of local Nullahs of **Loralai, Barkhan, Kohlu, Mosa Khel, Sherani, Sibbi, Bolan (Balochistan)** between **24th to 26th July 2022**.

5. Heavy rainfall spell occurred in various parts of the country during the past 24-48 hours had caused damages to various infrastructure including road network. The concerned organizations are reportedly busy in restoring the damaged infrastructure including restoration of road sections.

6. **Precautionary Measures by all Concerned:**

All concerned authorities, especially PDMA, DDMA, GBDMA, SDMA, Provincial Irrigation Departments are strictly advised to remain **Fully Alert**, ensure timely actions on warnings issued by the concerned organizations, so as to save the communities of low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

7. Pakistan Meteorological Department (PMD), Islamabad through FFD, Lahore is monitoring the present 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.


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

Distribution:

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

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, Ministry of Climate Change, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, 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)/2022, Dated 24-07-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions July 24, 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	175,000	117,000	224,000	138,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	169,000	163,000	150,000	146,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	183,000	176,000	253,000	243,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	227,000	197,000	214,000	203,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	181,000	138,000	210,000	188,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	117,000	62,000	135,000	111,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	28,000	NIL	99,000	79,000	Normal	650,000
River Kabul									
• Warsak	540,000				27,000		36,000	Normal	200,000
• Nowshera		450,000	29-07-2010		48,000		56,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		14,000		10,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		11,000		9,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		9,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	44,000	9,000	31,000	12,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	4,000	NIL	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	54,000	21,000	95,000	86,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	32,000	26,000	125,000	119,000	Low Flood (F)	400,000
• Qadirabad	900,000	948,530	11-9-1992	30,000	10,000	134,000	115,000	Low Flood (F)	400,000
• Trimmu	875,000	943,225	08-7-1959	73,000	57,000	57,000	47,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	16,000	1,000	39,000	32,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		8,000		21,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		22,000		9,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	53,000	24,000	46,000	25,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	25,000	8,000	17,000	14,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	14,000	3,000	21,000	15,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	1,000	13,000	13,000	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	1459.98	1490.58	1507.19	5.827	2.823	3.542	60.79 %
Chashma	649.00	638.15	648.30	647.90	643.00	0.278	0.223	0.078	28.06 %
Mangla	1242.00	1050.00	1228.70	1177.70	1136.60	7.356	3.056	1.286	17.48 %
Total Live Storage						13.461	6.102	4.906	36.45 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	28.6 °C	37.5°C	+ 8.9
Minimum	16.3 °C	24.3 °C	+ 8.0

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.	Haraman	92
2.	Lahore	[Johar Town=86, Township=66, Samanabad & Punjab University=22 (each), Gulburg=16, Iqbal Town=15, Jail Road & Taj Pura=12 (each), Airport=11, Gulshan e Ravi & Luckshami=10 (each), Upper Mall=07 & Misri Shah=05]
3.	Layyah	47
4.	DG Khan	[Fort Munro=44, Airport=36, Vehova=22, Zain Sanghar=21 & Marri=16]
5.	Islamabad	[Shamsabad=43, Zeropoint=37, New Airport=19 & Golra=08]
6.	Jhang	38
7.	Sargodha	(Airbase=30 & City=21)
8.	Khanpur	31
9.	Bahawalpur	(City=28 & Airport=22)
10.	Kot Addu	25
11.	Toba Teak Singh	19
12.	Multan	(Airport=18 & Shuja Abad=05)
13.	Kasur & Ravi Syphon	17
14.	Rohtas	16
15.	Chakwal & Shorkot	12
16.	Bahawalnagar, Bhandu Wala & Shakar Garh	10 each
B	Sindh	
17.	Tando Jam	55
18.	Sakrand	40
19.	Hyderabad	38
20.	Badin	26
21.	Mithi	22
22.	Mirpur Khas	14
23.	Sukkur	10
C	Khyber Pakhtunkhwa	
24.		
25.	Pashat-Bajaur	56
26.	D.I.Khan	26
27.	Dir & Balakot	25
28.	Chitral	14
29.	Kalam	13
30.	Mamad Gut & Besham	11 each
31.	Buner	10
D	Balochistan	
32.	Zhob	51
33.	Sibbi	18
34.	Lasbela	13
E	G-B	
35.	Bagrote	11
F	A J & K	
36.	Bandi Abbaspur	110
37.	Palandri	41
38.	Muzaffarabad & Rawalakot	21 each
39.	Hajira	18
40.	Chattar Kallas	14
41.	Chakothe	12

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

