



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
FRIDAY, JULY 22, 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, Mangla & Chashma) is **4.568 MAF** which is **33.93 % of 13.461 MAF** (Total existing Live Storage Capacity).

2. A fresh Low Pressure Area has developed over Northwestern parts of Rajasthan (India) & adjoining areas and it is very likely to move in Southwestern direction towards Sindh (Pakistan) during the next 24 hours. Moderate moist currents from both Arabian Sea & Bay of Bengal are penetrating into upper & central parts of Pakistan up to 7, 000 feet whereas Seasonal Low continues to prevail over Northwestern Balochistan (Source: FFD, Lahore).

FFD's Ensuing 24 hours Prediction:

3. Under the influence of prevailing weather system, scattered thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy Falls** has been predicted by FFD, Lahore, over **Multan, D.G Khan & Bahawalpur Divisions of Punjab, D.I Khan, Kohat & Bannu Divisions of Khyber Pakhtunkhwa, Southeastern Sindh & Eastern Balochistan** including upper catchments of rivers Chenab, Ravi & Sutlej during the next 24 hours. Isolated thunderstorm/rain of **Moderate Intensity** may also occur over **Islamabad, Rawalpindi, Sargodha, Gujranwala, Lahore, Faisalabad & Sahiwal Divisions of Punjab, Peshawar Division (KP) and Southern Sindh** besides over upper catchments of Rivers Indus & Jhelum during the same period. As a result, the local Nullahs/Tributaries of **Rivers Chenab (Bhimber, Aik, Palkhu, Halsi & Daulti) & Ravi (Bein, Basantar, Deg, Hasri & Jhahhri)** including **Hill Torrents of D.G.Khan Division** may experience **Medium to High Level flooding** during the next 24-hours. Punjab, KP & Sindh provinces in particular have experienced good rains during the past 24 hours (**Annexure-II**, Source: FFD, Lahore).

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

4. The Wet spell of **Moderate Intensity** is likely to continue over upper half of the country for further 24 hours. Widespread thunderstorm/rain of **Moderate to Heavy Intensity** with scattered **Very Heavy Falls & Isolated Extremely Heavy Falls** is expected over **Sindh & Eastern Balochistan** from **23rd (night) to 26th July 2022** besides over **Coastal Balochistan (25th to 26th July 2022)**. 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)** and **Hill Torrents of D.G. Khan Division (Punjab)** between **24th to 26th July 2022**.

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), Islamabad through FFD, Lahore is monitoring the present weather system specifically with reference to the intensity and movement of fresh **Low Pressure area (presently lying over Northwestern parts of Rajasthan (India) & adjoining areas)** and its likely impact on Pakistan's weather system and is keeping all concerned fully cognizant of the situation.


(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.
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5. Secretary, Ministry of Water Resources, Islamabad.
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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.
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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 22-07-2022

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PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions July 22, 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	274,000	79,000	209,000	158,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	192,000	188,000	181,000	175,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	225,000	210,000	214,000	200,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	209,000	181,000	190,000	170,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	164,000	122,000	170,000	143,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	106,000	51,000	158,000	125,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	25,000	NIL	97,000	64,000	Normal	650,000
River Kabul									
• Warsak	540,000				40,000		30,000	Normal	200,000
• Nowshera		450,000	29-07-2010		87,000		55,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		19,000		14,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		16,000		9,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		11,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	51,000	10,000	34,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	9,000	NIL	14,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	79,000		95,000	86,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	81,000	54,000	72,000	66,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	91,000	71,000	77,000	55,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	38,000	22,000	33,000	21,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	24,000	9,000	39,000	34,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955				8,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		14,000		21,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	50,000	36,000	42,000	17,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	1,000	18,000	13,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	14,000	3,000	18,000	12,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	1,000	12,000	12,000	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	1459.20	1483.38	1501.31	5.827	2.508	3.255	55.86 %
Chashma	649.00	638.15	648.00	643.80	644.40	0.278	0.096	0.110	39.57 %
Mangla	1242.00	1050.00	1227.85	1174.45	1134.10	7.356	2.890	1.203	16.35 %
Total Live Storage						13.461	5.494	4.568	33.93 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+/-)
Maximum	20.4 °C	35.7 °C	+ 15.3
Minimum	11.2 °C	16.4 °C	+ 5.2

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.	Jhang	150
2.	Kallar	128
3.	Hafizabad	120
4.	Mianwali	95
5.	Multan	[Mumtazabad=90, Chungi No.9=57, Airport=32, Kiri Jamandan & Shuja Abad=20 (each)]
6.	GS Wala	73
7.	Khanewal	66
8.	Kasur	61
9.	Rahim Yar Khan	58
10.	DG Khan	[Vehova=57, Zain Sanghar=37& Airport=25]
11.	Kot Addu	54
12.	Lahore	[Taj Pura=53, Airport=50, Shahi Qilla=42, Shahdara=37, Mughal Pura=25, Gulshan e Ravi=23, Johar Town & Samanabad=20 (each), Luckshami & Upper Mall=15 (each)]
13.	Layyah	43
14.	Sargodha	(Airbase=42 & City=31),
15.	Islamabad	[New Airport=42, Bokra=39, Chaklala (Airbase)=27, Zeropoint=26, Shamsabad=25, Saidpur=19 & Golra=16],
16.	Faisalabad	38
17.	Sialkot	(Cantt=35 & Airport=25)
18.	Narowal & Sharqpur	24 (each)
19.	Gujranwala	22
20.	Mangla	21
21.	Murree	20
22.	Jhelum	18
23.	Khanpur	16
B	Sindh	
24.	Padidan	102
25.	Moin-Jo-Daro	58
26.	Rohri	35
27.	Dadu	33
28.	Bhakkar	32
29.	Larkana	22
C	Khyber Pakhtunkhwa	
30.	Kamra	49
31.	Takht Bai	42
32.	Mardan	41
33.	Peshawar	(City=38, Airport=35 & Bacha Khan A/P=29),
34.	Kohat & Bannu	34 (each)
35.	Shinkiari	28
36.	Risalpur	27
37.	Cherat	21
D	Balochistan	
38.	Barkhan	24
E	A J & K	
39.	Palandri	70

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

