



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SUNDAY AUGUST, 07 2022

Except for River Indus which is flowing in “**Medium Flood**” in **Guddu - Sukkur** reach, all other main Rivers (Jhelum, Chenab, Ravi, Sutlej and Kabul including Indus at Tarbela, Kalabagh, Chashma, Taunsa & Kotri) are flowing in Normal Flow Conditions. **Annexure-I** depicts today's (0600 hours) Inflows/ Outflows of main rivers at important control structures, reservoir's storage position and Skardu temperature. Today's Combined Live Storage of the Tarbela, Mangla & Chashma is **7.837 MAF** (i.e. **58.22%** of the total **13.461 MAF**).

2. According to FFD, Lahore, yesterday's **Monsoon Low** over Northwestern Bay of Bengal (India) remained stationary, however it has become **WELL MARKED** and is likely to become **MORE MARKED**. Trough of Westerly Wave continues to prevail over Northeastern Afghanistan and adjoining areas with Seasonal Low lying over Northwestern Balochistan. Mild moist currents both from Arabian Sea and Bay of Bengal continue to penetrate into upper parts of the country up to 4000 feet.

3. **Ensuing 24 hours Prediction:** (Source: FFD Lahore)

Scattered thunderstorm/rain of **Moderate Intensity** is expected over the upper catchment of River Indus. Isolated to scattered thunderstorm/rain may also occur over **Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, D.G. Khan & Bahawalpur Divisions), Sindh, Khyber Pakhtunkhwa, Eastern Balochistan** and over the upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej during the same period. Substantial rainfall has taken place over Lahore (Johar Town = 81 mm & Airport = 52 mm). Detail of rainfall events reported by FFD, Lahore during the past 24 hours in the country may be seen at **Annexure-II**.

4. **08th to 14th August 2022: Weather Outlook & Significant Flood Forecast (Source: FFD Lahore)**

According to FFD Lahore, monsoon activity is likely to become **VIGOROUS** during **10th to 14th August 2022** over **Sindh, Balochistan** including **D.G. Khan Division**, it will also affect the upper half of the country and rest of the **Southern Punjab** but with relatively less intensity from **10th to 13th of August 2022**, which may result scattered rainfall of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** is expected over upper catchments of all the Major Rivers and widespread rainfall of **Heavy to Very Heavy Intensity** over **Suleman Range (D.G. Khan & Rajanpur districts of Punjab Province)** including **Sindh & Balochistan** from **10th to 13th August 2022**. As a consequence:


- Heavy Rains may generate **Urban Flooding** in **Islamabad, Punjab (Rawalpindi, Faisalabad, Lahore & Gujranwala)** and **Khyber Pakhtunkhwa (Peshawar, Nowshera & Mardan Divisions)** from **10th to 13th August 2022**.
- **Flash Flooding** is expected in local Nullahs of **Islamabad, Punjab (Rawalpindi, Shakargarh, Sialkot, Narowal)** and **Khyber Pakhtunkhwa (Abbottabad, Mansehra, Dir, Karak, Lakki Marwat, & Bannu)** and **Kashmir** from **10th to 13th August 2022**.
- Heavy Rains may develop **Urban Flooding** in **Sindh (Karachi, Thatta, Badin, Hyderabad, Dadu, Jamshoro, Sukkur, Larkana, Shaheed Benazirabad & Mirpurkhas)** from **11th to 14th August 2022**.
- **Flash Flooding** may also occur in **Balochistan (Qilla Saifullah, Loralai, Barkhan, Kohlu, Mosa Khel, Sherani, Sibbi, Bolan, Kalat, Khuzdar, Lasbella, Awaran, Turbat, Panjgur, Pasni, Jiwani, Ormara, & Gwadar)** including **Hill Torrents of Dera Ghazi Khan** from **11th to 14th August 2022**.
- Catchment areas of **Rivers Ravi, Jhelum and Chenab** may receive **Heavy Downpour**, which may cause rise in water level significantly during the forecasted period.

5. All related organizations, particularly **PDMA's**, related **DDMA's**, **SDMA**, **AJ&K**, **District Administrations** and **local field formations** of **concerned Irrigation Departments** are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of low lying area communities, public & private property besides irrigation, drainage & flood protection infrastructure etc.

6. Pakistan Meteorological Department (PMD) is monitoring the present weather system on Round-the-Clock basis and keeping all concerned informed through FFD, Lahore.

Distribution:

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


(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission
Tel: 051-9244604

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 07-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad.

**Rivers and Reservoir Positions
August 07, 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	196,000	170,000	166,000	158,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	196,000	189,000	104,000	97,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	199,000	184,000	169,000	152,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	269,000	245,000	126,000	124,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	306,000	266,000	409,000	387,000	Med. Flood (S)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	250,000	193,000	385,000	350,000	Med. Flood (S)	700,000
• Kotri	875,000	981,000	14-8-1956	38,000	2,000	193,000	184,000	Normal	650,000
River Kabul									
• Warsak	540,000				29,000		24,000	Normal	200,000
• Nowshera		450,000	29-07-2010		49,000		44,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		11,000		15,000	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		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	46,000	7,000	38,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	9,000	5,000	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	67,000	33,000	59,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	43,000	36,000	42,000	36,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	35,000	15,000	46,000	27,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	41,000	25,000	54,000	48,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	72,000	57,000	77,000	66,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		17,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		25,000		27,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	39,000	11,000	41,000	22,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	22,000	6,000	25,000	15,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	12,000	7,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	3,000	2,000	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	1490.44	1536.00	1540.31	5.827	5.091	5.272	90.47 %
Chashma	649.00	638.15	645.40	644.60	648.50	0.278	0.115	0.253	91.01 %
Mangla	1242.00	1050.00	1232.10	1189.65	1162.50	7.356	4.247	2.312	31.43 %
Total Live Storage						13.461	9.453	7.837	58.22 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	28.0 °C	28.7 °C	+ 0.7 °C
Minimum	12.8 °C	15.6 °C	+ 2.8 °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 freeboards

"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)

(R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

**Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission
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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	[Johar Town=81, Airport=52, Punjab University=35, Gulshan e Ravi=34, Taj Pura & Township=33 (each), City=29, Upper Mall & Mughal Pura=16 (each), Luckshami=13, Gulburg , Misri Shah & Shahi Qilla=12(each), Iqbal Town=10, Samanabad=07, Shahdara=06]
2.	D.G Khan	27
3.	Sharqpur	15
B	Sindh	
4.	Mirpur Khas	30
5.	Tando Jam	20
6.	Badin	16
7.	Hyderabad & Thatta	09 each
8.	Karachi	07
9.	Shaheed Benazirabad	05
C	Khyber Pakhtunkhwa	
10.	Tarbela	18
11.	Buner	09
D	AJ&K	
12.	Kotli	38
13.	Rawalakot	11

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